

D-T66

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model
UK Model



Discman

SPECIFICATIONS

CD section

System
Laser diode properties

Compact disc digital audio system
Material: GaAlAs
Wavelength: 780 nm
Emission duration: Continuous
Laser output: Max. 44.6 μ W*

* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

Spindle speed
Scan velocity
Error correction
D-A conversion
Frequency response
Wow and flutter

500 r.p.m. to 200 r.p.m. (CLV)
1.2 - 1.4 m/sec.
Sony Super Strategy Cross Interleave Reed Solomon Code
16-bit linear 8 fs digital filter
20 - 20,000 Hz $\pm 1/3$ dB

Below measurable limit**

** Measured by EIAJ CP-307

Outputs (at 6 V input level)

Line output (stereo minijack)
Output level 0.6 V rms at 50 kilohms
Load impedance over 10 kilohms
Headphones (stereo minijack)
9 mW + 9 mW at 16 ohms

Radio section

Frequency range

AEP (except Italian) and Canadian

FM: 87.5 - 108 MHz in 50 kHz (100 kHz) intervals
AM: 531 - 1602 kHz in 9 kHz intervals
530 - 1710 kHz in 10 kHz intervals

Italian model

FM: 87.5 - 108 MHz in 50 kHz intervals
AM: 531 - 1602 kHz in 9 kHz intervals

UK model

FM: 87.5 - 108 MHz in 50 kHz (100 kHz) intervals
AM: 531 - 1602 kHz in 9 kHz intervals
530 - 1710 kHz in 10 kHz intervals

E model

FM: 76 - 108 MHz in 50 kHz intervals
87.5 - 108 MHz in 100 kHz (50 kHz) intervals
AM: 531 - 1602 kHz in 9 kHz intervals
530 - 1710 kHz in 10 kHz intervals

Intermediate frequency

FM: 10.7 MHz
AM: 450 kHz

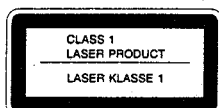
Antenna

FM: Headphone cord or connecting cord antenna
AM: Built-in ferrite bar antenna

CAUTION

The use of optical instruments with this product will increase eye hazard.

For the Customers kin the UK model and AEP model



This Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the bottom exterior.

General

Power requirements

Rechargeable battery pack BP-2EX (supplied)
Battery case EBP-2 (supplied) and two size AA (LR6) alkaline batteries (not supplied)
DC IN 6 V jack accepts:
Sony AC power adaptor (supplied)

Where purchased	Operating voltage
Canadian model	120 V AC, 60 Hz
UK model	240 V AC, 50 Hz
AEP model	220 V AC, 50 Hz
E model	100-240 V AC, 50/60 Hz

Sony CPM-200P mount plate for use on 12 V car battery (not supplied)

Lithium battery (Sony CR2025)

1.4 W DC

Power consumption

Dimensions

Approx. 128 x 35.4 x 145 mm (5 1/8 x 1 7/16 x 5 3/4 in.) (w/h/d) not incl. inclined part (depth), projecting parts and controls
Approx. 130 x 36.6 x 146 mm (5 1/8 x 1 1/2 x 5 3/4 in.) (w/h/d)

incl. projecting parts and controls

Approx. 390 g. (13 oz) not incl. rechargeable battery

Approx. 475 g (1 lb 1 oz) incl. rechargeable battery

AC power adaptor (1)

Rechargeable battery pack (1)

Hand strap (1)

Connecting cord (1) (stereo miniplug ↔ two phono plugs)

Battery case (1)

Headphones (1)

Lithium battery (1)

Weight

Supplied accessories

Design and specifications subject to change without notice.

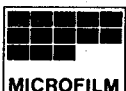
Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.



Polarity of the plug

FM/AM COMPACT DISC COMPACT PLAYER SONY®



CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

ADVARSEL !

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Lever det brugte batteri tilbage til leverandøren.

ADVARSEL

Lithiumbatteri – Eksplosjonsfare.
Ved utskifting benyttes kun batteri som
anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.



WARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!


LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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SECTION 1
GENERAL

• Features

- Compact disc player with digital synthesizer tuner.
- Numeric buttons allow direct choice of selections (CD) or preset stations (TUNER).
- PHONES/REMOTE jack allows use of the stereo headphones with remote controller (not supplied).

Before Using the Radio

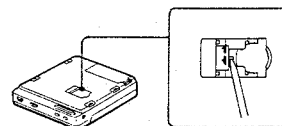
Stations preset at the factory for this unit are the ones listed under 1 in the table.

The position of the switch	1 (For US and Canadian model)	2 (AEP and E model)
Preset Number		
1	AM 530 kHz	AM 531 kHz
2	AM 620 kHz	AM 621 kHz
3	AM 1,000 kHz	AM 999 kHz
4	AM 1,400 kHz	AM 1,404 kHz
5	AM 1,710 kHz	AM 1,602 kHz
6	FM 87.5 MHz	FM 87.5 MHz
7	FM 98.0 MHz	FM 98.0 MHz
8	FM 108.0 MHz	FM 108.0 MHz
9	AM 530 kHz	AM 531 kHz
10	AM 620 kHz	AM 621 kHz
11	AM 1,000 kHz	AM 999 kHz
12	AM 1,400 kHz	AM 1,404 kHz
13	AM 1,710 kHz	AM 1,602 kHz
14	FM 87.5 MHz	FM 87.5 MHz
15	FM 98.0 MHz	FM 98.0 MHz
16	FM 108.0 MHz	FM 108.0 MHz
17	AM 530 kHz	AM 531 kHz
18	AM 620 kHz	AM 621 kHz
19	AM 1,000 kHz	AM 999 kHz
20	AM 1,400 kHz	AM 1,404 kHz

(Position 3 is the same as the position 2.)

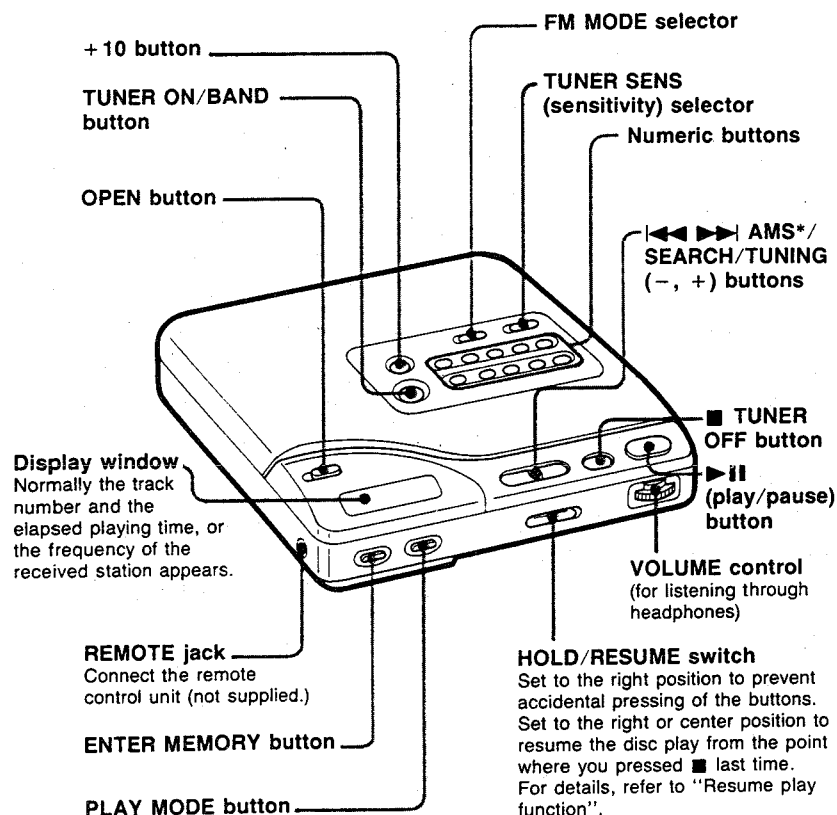
How to select the factory preset stations

- 1 Remove the power sources and the lithium battery from the unit.
- 2 Set the switch to the appropriate position according to the area where you use the unit, with a ball-point pen or other pointed object.

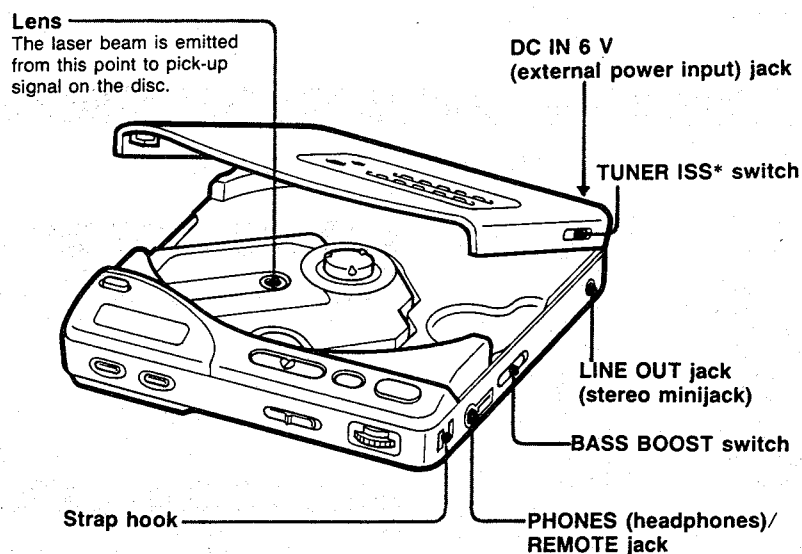
**To use the unit in European countries**

Set the switch to position 2.
Never use the supplied AC power adaptor. Be sure to use the AC power adaptor whose operating voltage and frequency are the same as the local power line voltage and frequency.

• Location and Function of controls



* AMS is the abbreviation of Automatic Music Sensor.



* ISS is the abbreviation of Interference Suppress Switch.

SECTION 2

SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

Flexible Circuit Board Repairing

1. Keep the temperature of the soldering iron at $270^{\circ} \pm 10^{\circ}\text{C}$ during repairing.
2. Do not touch the soldering iron more than 4 seconds or 3 times on the same conductor of the circuit board.
3. Do not apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Before Replacing the Optical Block

Please be sure to check thoroughly the parameters as per the "Optical Block Checking Procedures" (Part No.: 9-960-027-11) issued separately before replacing the optical block.

Note and specifications required to check are given below.

- FOK output : IC501 ⑨ pin
When checking FOK, remove the lead wire to disc motor and unsolder and open IC801 ④ pin.
- S curve P-to-P value : 2.5 Vp-p
- Adjusted part for focus gain adjustment : RV505
- RF signal P-to-P value : 0.8-1.35 Vp-p
- Traverse signal P-to-P value : 1.8 Vp-p
- The grating holer can not repair.
- Adjusted part for tracking gain adjustment : RV501

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe, from more than 30cm away from the objective lens.

Laser Diode Check Procedure

The laser diode on this set will not emit unless the top panel is closed and S901 (leaf SW type) is turned on. The laser diode will always emit even if focus search is not performed in service mode.

The laser diode is checked using the current value which flows to the laser diode inside the UPF.

Procedure 1 (service mode or normal operation)

Check the laser diode emission with the eye.

1. Open the top panel.
2. S901 on as Fig. 1.
(In service mode, this operation is not necessary.)
3. Press the ►|| key.
(In service mode, this operation is not necessary.)
4. Observe the objective lens and confirm that the laser diode is emitting light. At this time, the laser diode goes on about 10 seconds due to focus search. If it does not, APC circuit or UPF is defective.

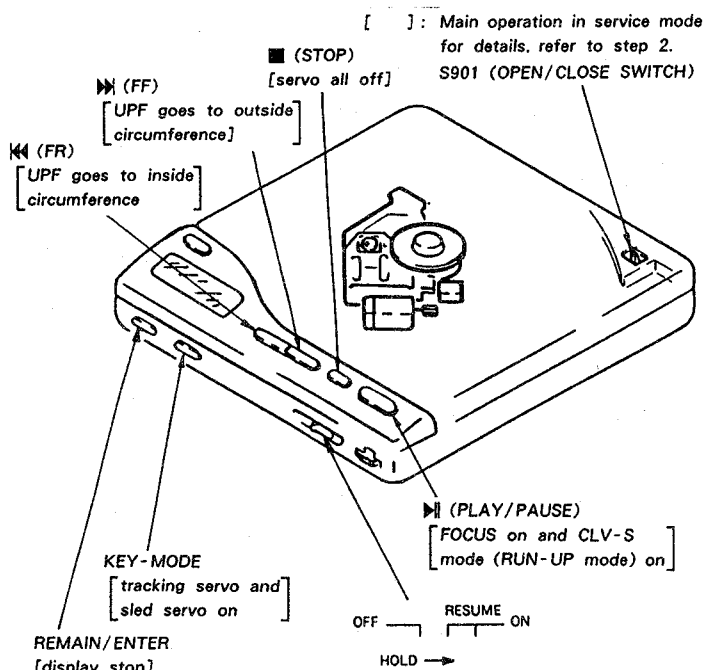
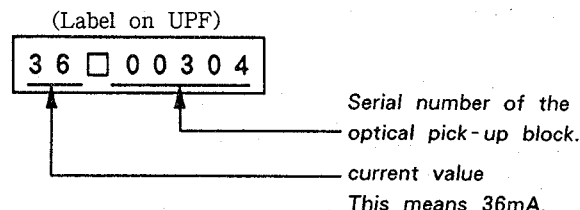


Fig. 1 Turning S901 on/Key position.

Procedure 2 (service mode or normal operation)

Check by the current with flows in the laser diode.

1. Close the top panel.
2. Remove the main board and read the current value on the label affixed to the UPF.



The current value varies with the set.

3. Connect a VOM as shown in Fig. 2.
4. Press the ►|| key.
5. Calculate the current by the VOM reading.
VOM reading (V) \div 10 = current (A)
ex. VOM reading = 0.36V
 $0.36 \div 10 = 0.036$ (A) = 36 (mA)
6. Confirm that the ammeter reading is within the range given below.
value on label $\pm 5\%$ mA (25°C)
variation relative to temperature: 0.4mA/°C
(Current increases when temperature rises and decreases when temperature goes down)
If the value is more than the range given, APC circuit has been defective or the laser diode has deteriorated.
If it is less, APC circuit or UPF is defective.

SERVICE MODE (service program)

This set has built-in service program in the microcomputer as usual sets.

The operation method of service program is explained below.

Step 1 (Service Mode setting method)

1. Turn the HOLD switch OFF with the external power supply not plugged in (no power applied to set) and press the ►|| key.
2. Solder jumper TEST point.
Short Z5 (TEST) jumper terminal. (Z5 (TEST) jumper terminal is connected to pin 13 of IC802.)
(IC801 pin ⑤ (BAT-E) is grounded.)
3. Plug in external power supply.
This puts the set into service mode.

SECTION 3

ELECTRICAL ADJUSTMENTS

Step 2 (Service Mode operation)

1. When service mode is set, the display will change 6 times, and those 6 changes will be repeated over and over.
With this the LCD display should be present in service mode. Even if LCD does not display, other operations will be performed.
2. When ►► or ◄◄ key is pressed, the UPF moves to the inside or outside circumference. Tracking servo and sled servo go off when this is done, so press KEY-MODE to turn on the tracking servo if necessary.
3. When REMAIN is pressed, the display stops. When REMAIN is released, the display continues to change. This allows check of each segment.
4. When ►■■ key is pressed, CLV-S (pull-in mode) starts while performing focus search. When there is no disc installed, focus search is repeated several times while disc motor is rotating.
5. When KEY-MODE is pressed, focus servo, tracking servo, sled servo and CLV-A (servo during PLAY) go ON.
6. When 4 and 5 are performed, the disc begins to play. At this time, the top panel should be closed and S901 are to be ON.
7. All servo (focus, tracking, sled and spindle) go off when ■ key is pressed. But disc motor continues rotating for a while by inertia.

Step 3 (Service Mode release)

1. First be sure to unplug the external power supply, then remove the TEST point solder jumper.
2. The set will now operated normally.

3-1. CD SECTION

Notes on Adjustment

1. Perform adjustments except for RECHARGEABLE VOLTAGE ADJUSTMENT and BATTERY DISPLAY ADJUSTMENT in service mode. Be sure to release service mode after completing adjustment. (Refer to "Service Mode (service program)" on page 5.)
2. Perform adjustments in the order given.
3. Use YEDS-18 disc (part No.: 3-702-101-01) unless otherwise indicated.
4. Power supply voltage: 6V DC
HOLD switch: OFF
VOLUME control: MIN

PREPARATION

Put the set into service mode (see page 5) and perform the following checks. Repair if there are any abnormalities.

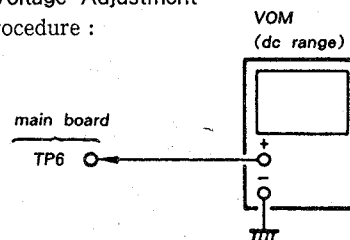
• Sled Motor Check

1. Press the OPEN button and open the top panel.
2. Press the ►►, ◄◄ keys and make sure that the UPF moves smoothly, without catching, from the inmost → outmost → inmost circumference.
►►: UPF moves outward
◄◄: UPF moves inward

• Focus Search Check

1. Press the OPEN button and open the top panel.
2. Press the ►■■ key. (Focus search is performed continuously.)
3. Observe the UPF objective lens and chek that it moves smoothly up and down with no catching or noises.
4. Press the ■ key.
Check that focus search operation stops. If it does not stop, press the ■ key again longer than before. But disc motor continues rotating for a while by inertia.

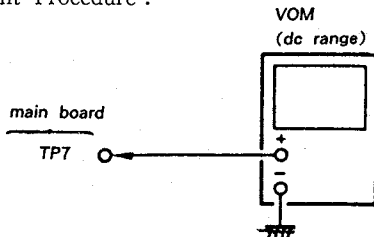
Rechargeable Voltage Adjustment Adjustment Procedure :



1. Connect the VOM to main board test point TP6.
2. Apply DC 6V with regulated dc power supply from external power jack CN401.
3. Adjust RV402 for 4.9-5V reading on the VOM.
Note: Measure after the VOM reading becomes stable.

+ 3.6V Adjustment

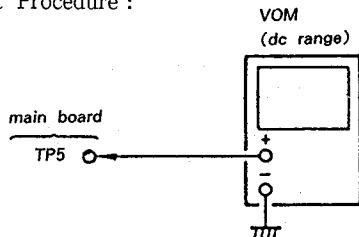
Adjustment Procedure :



1. Apply +3.0Vdc between the terminals for batteries (BATT : AM3).
2. Put the set into service mode (see page 6).
3. Connect the VOM to main board test point TP7.
4. Adjust RV403 for 3.55-3.65V reading on the VOM.
5. After adjustment, release service mode (see page 6).

+ 5V Adjustment

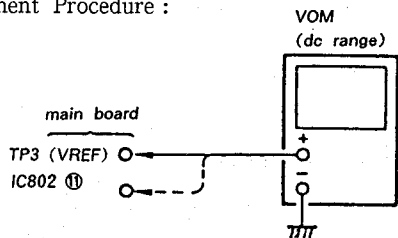
Adjustment Procedure :



1. Put the set into service mode (see page 6).
2. Connect the VOM to main board test point TP5.
3. Adjust RV401 for $+5 \pm 0.5V$ reading on the VOM.
4. After adjustment, release service mode (see page 6).

Battery Display Adjustment

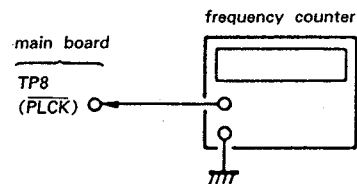
Adjustment Procedure :



1. Be sure that S401 is set to on.
2. Apply dc +3.5V to terminals for built in battery (BP-2).
3. Insert the disc (YEDS-18) and put the set into play mode.
4. Adjust RV801 so that main board IC802 ⑩ TP4 voltage and TP3 (VREF) voltage are equal.

PLL Free Run Frequency Check and Adjustment

Check/Adjustment Procedure :



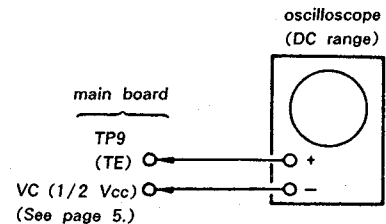
1. Disconnect the jumper point Z9 (EFM).
2. Connect a frequency counter to main board test point TP8 (PLCK).
3. Put the set into service mode (see page 6).
4. Check that the frequency counter reading is 4.310 ± 0.01 MHz.
If not, adjust RV504 so that it is 4.310 ± 0.01 MHz.
5. After adjustment, release service mode (see page 6).
6. Short the jumper point disconnected in step 1.

Tracking Balance Adjustment

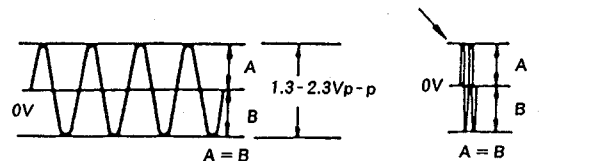
Conditions :

The set should be placed disconnected horizontally.

Adjustment Procedure :



1. Connect the oscilloscope to main board TP9 (TE).
2. Put the set into service mode (see page 6).
3. Press the ►► and ◄◄ keys to move the UPF to the center.
4. Insert the disc (YEDS-18) and close the top panel.
5. Press the ►|| key.
(It will go from focus search to focus on, and CLV pull-in mode state. Tracking and sled are OFF.)
6. Adjust RV502 so that the oscilloscope waveform is symmetrical about 0V axis.
Note : Take sweep time as long as possible to obtain best waveform.



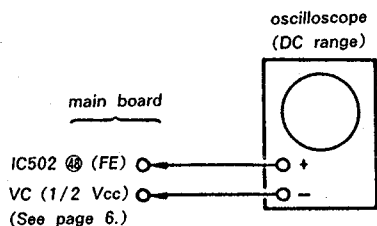
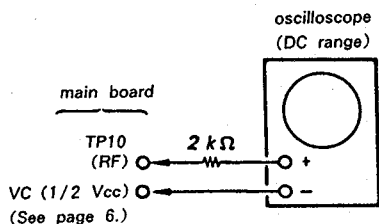
7. Unplug the external power supply to stop spindle motor from rotating.
8. After adjustment, release service mode (see page 6).

Focus Bias Adjustment

Conditions :

The set should be placed horizontally.

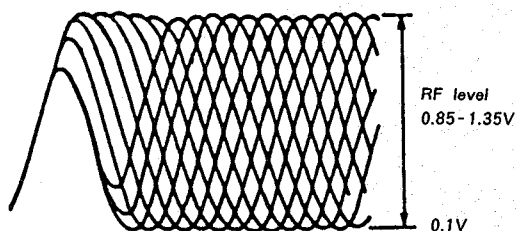
Adjustment Procedure :



1. Put the set into service mode (see page 6).
2. Connect the oscilloscope to main board IC501 ⑭ test point TP10 (RF).
3. Press the ►► and ◄◄ keys to move the UPF to the center.(Move the UPF to the music area on the disc to enable easy visibility of the eye pattern).
4. Insert the disc (YEDS-18) and close the top panel.
5. Press the ►► key.
6. Press the KEY-MODE button.(Tracking and sled go ON.)
7. Adjust RV503 so that the oscilloscope waveform eye pattern is good. A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

• RF Signal Reference Waveform (eye pattern)

VOLT/DIV : 200mV
TIME/DIV : 500nS



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

8. Connect the oscilloscope to test point TP11 (FE) (main board IC502 ⑭).

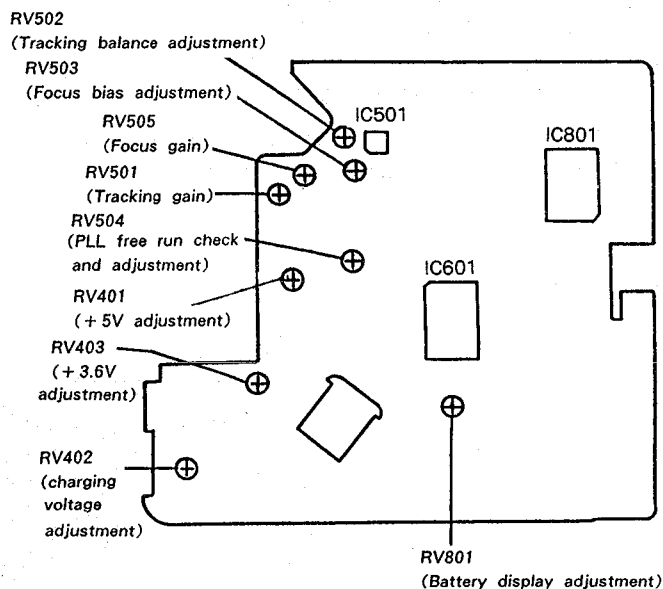
9. Unplug the external power supply to stop spindle motor from rotating.

Adjust RV503 again referring to the table followed.

oscilloscope reading	adjustment
more than +10mV	Adjust RV503 again for +10mV reading on oscilloscope.
less than -50mV	Adjust RV503 again for -50mV reading on oscilloscope.

10. After adjustment, release service mode (see page 6).

Adjustment Location : main board



Focus/Tracking Gain Adjustment

A frequency response analyzer or CD jig is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up followup (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate. However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is high, the noise when the 2-axis device operates increases.
- When gain is low, it is more susceptible to mechanical shock and skipping occurs more easily.

This adjustment is to be performed when replacing the following parts:

- optical pick-up block
- RV505 (focus gain VR)
- RV501 (tracking gain VR)

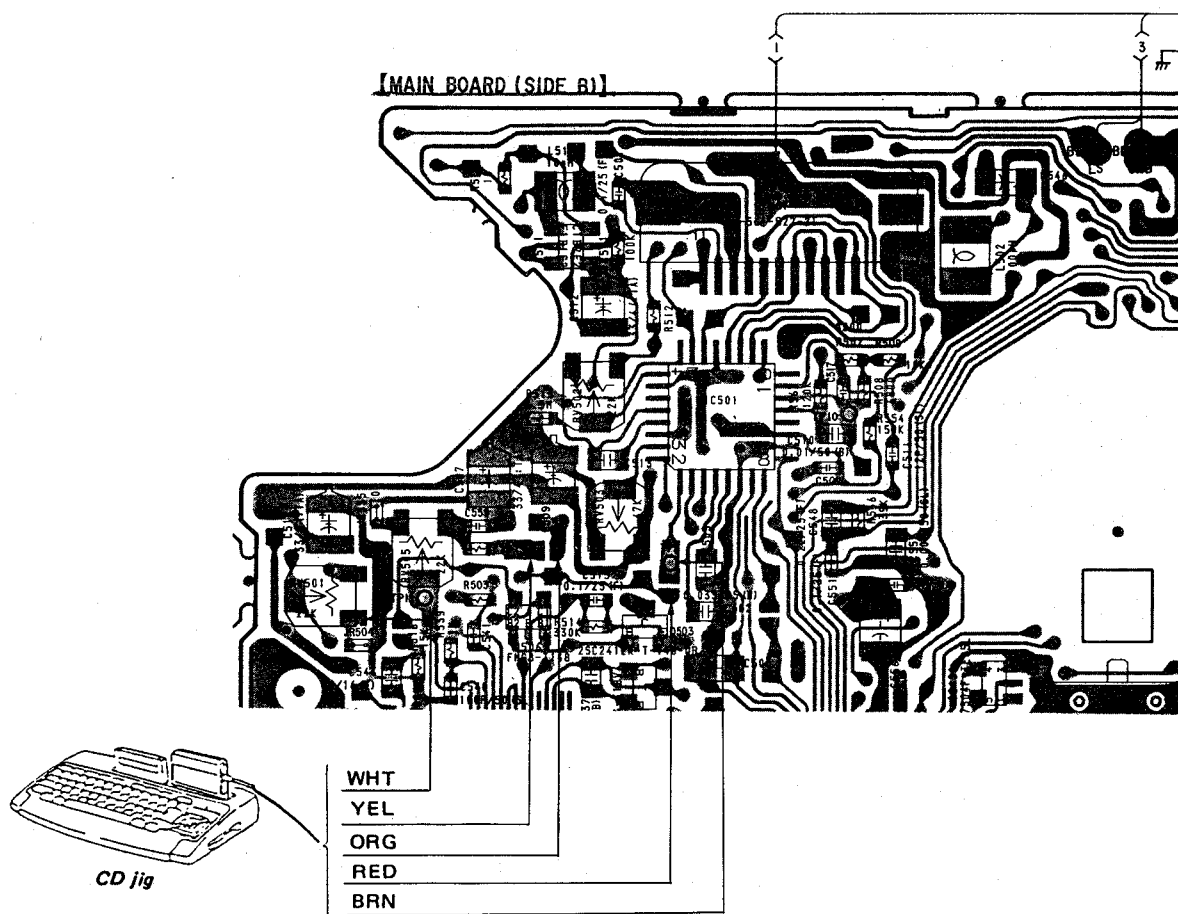
Be careful not to move RV505 (focus gain volume) and RV501 (tracking gain volume) ordinarily.

On this set, it is very difficult to simplify this adjustment. For those sets on which symptoms such as "occasional skipping" are hard to discover, or it is hard to tell if the set has been repaired, use the CD jig and perform this adjustment. Refer to the diagram below for connection of the CD jig. The adjustment procedure is described in the separate CD Jig Instruction Manual.

CD Jig Connecting Procedure:

Remove the solder jumpers at the TE and FE locations and connect the DC jig.

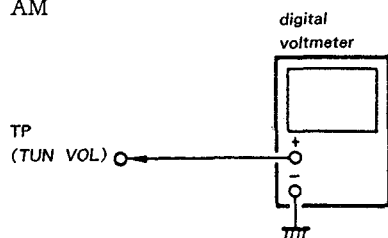
(Connect the points on both TE and FE located on the side of IC501 to the output to the CD jig, and points located on the side of volumes to the input from the CD jig.)



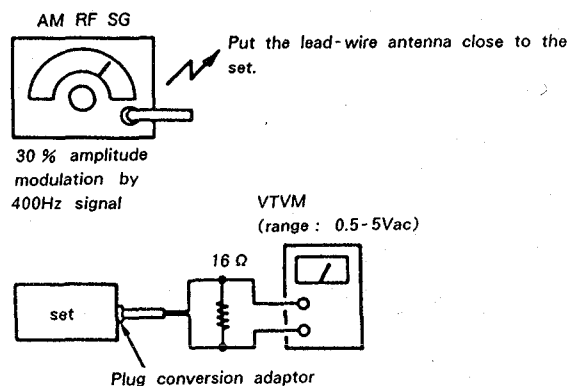
3-2. Radio Section

AM SECTION

BAND : AM



AM TUNING VOLTAGE ADJUSTMENT	
Adjust for following values on digital voltmeter.	
Display indication	AM531kHz
Digital voltmeter reading	1.1V
Adjustment part	L005



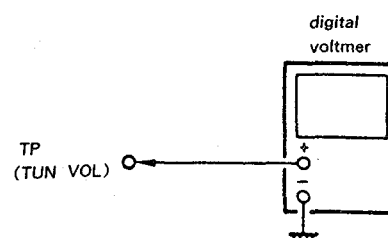
- Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitors.
- Set the input level so that signals are obtained maximumly.

AM TRACKING ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
Display	AM621kHz	AM1,404kHz
SG frequency	621kHz	1,404kHz
Adjustment part	L006 (BAR ANT)	CT003

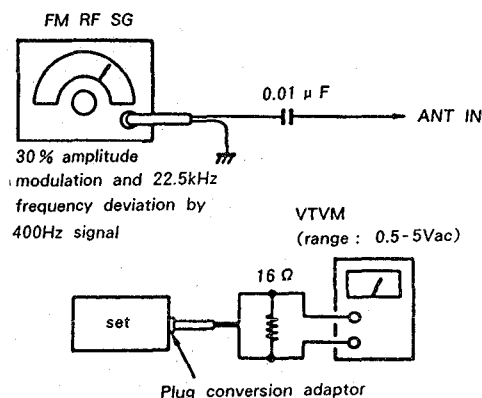
AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
SG frequency	450kHz
Adjustment part	T001

FM SECTION

BAND : FM

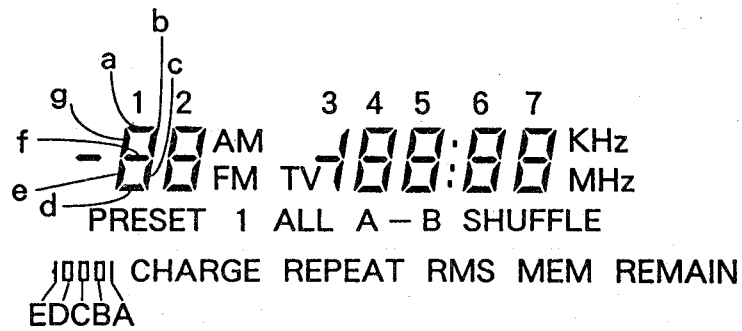


FM TUNING VOLTAGE ADJUSTMENT	
Adjust for following values on digital voltmeter.	
Display indication	FM76MHz
Digital voltmeter reading	1.2V
Adjustment part	L003



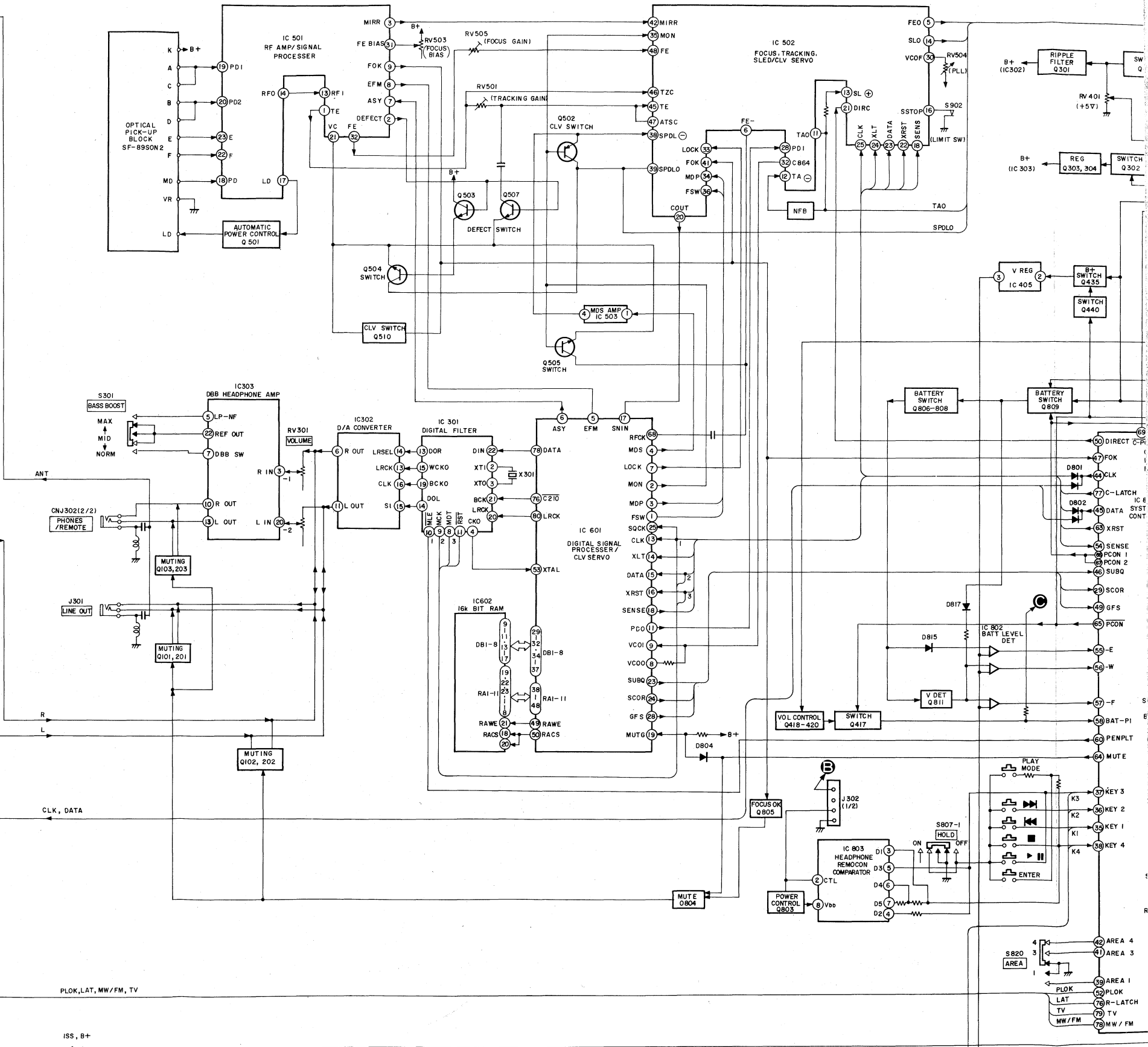
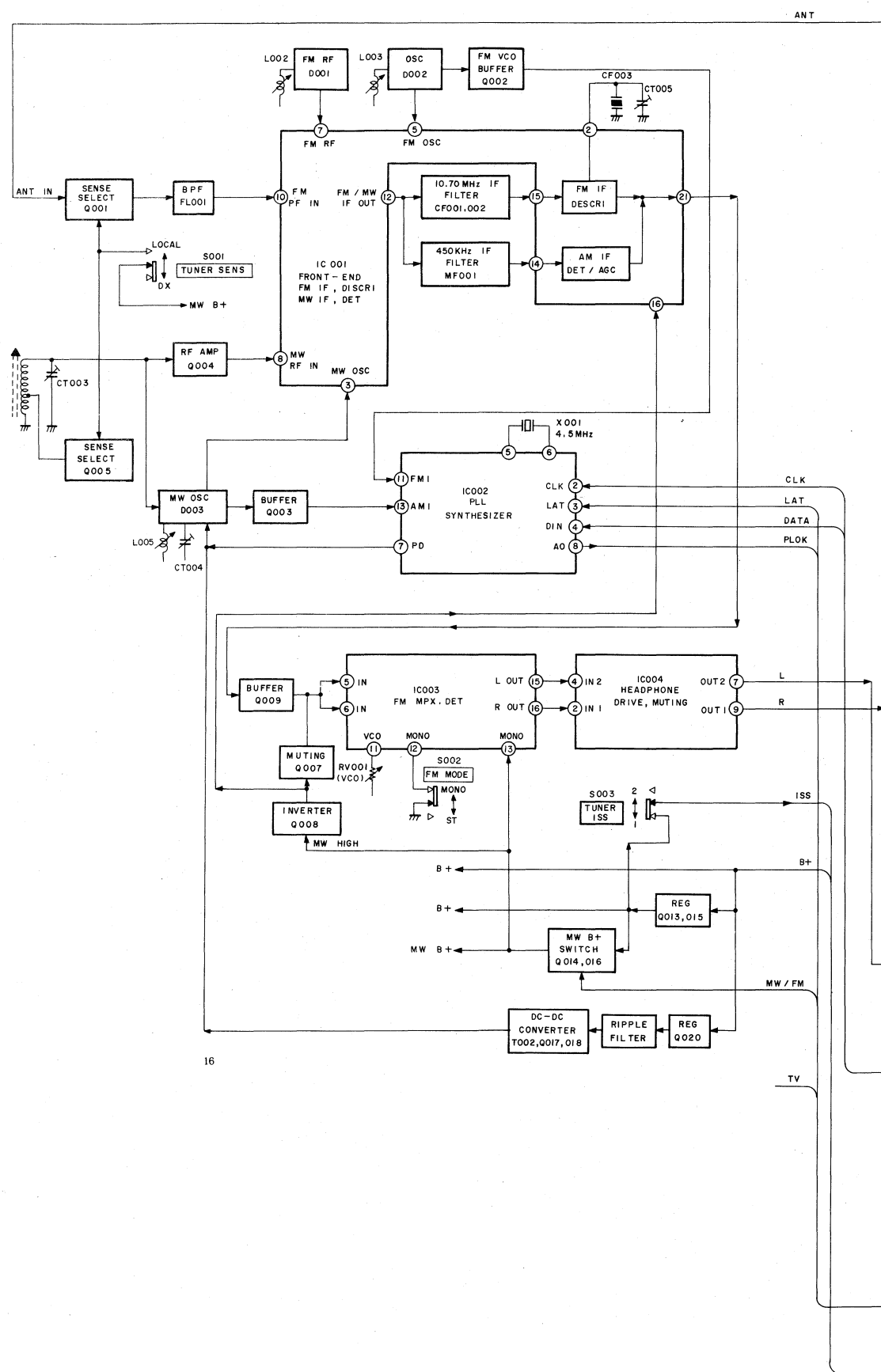
FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
Display indication	FM76MHz
SG frequency	76MHz
Adjustment part	L002

4-1. LCD MODULE



NO.	COM. 1	COM. 2	COM. 3	COM. 4
1				COM. 4
2			COM. 3	
3		COM. 2		
4	COM. 1			
5	D	C	B	A. E
6	-	REPEAT	CHARGE	PRESET
7	1f	1g	1e	
8	1a	1b	1c	1d
9	2f	2g	2e	
10	2a	2b	2c	2d
11	AM	FM	TV	1
12	3b	3g	3c	ALL
13	4f	4g	4e	
14	4a	4b	4c	4d
15	5f	5g	5e	
16	5a	5b	5c	5d
17		:	.	B
18	6f	6g	6e	
19	6a	6b	6c	6d
20	7f	7g	7e	
21	7a	7b	7c	7d
22	KHz	MHz	REMAIN	SHUFFLE
23		MEM	RMS	A -

4-2. BLOCK DIAGRAM



4-3. CIRCUIT BOARD LOCATION

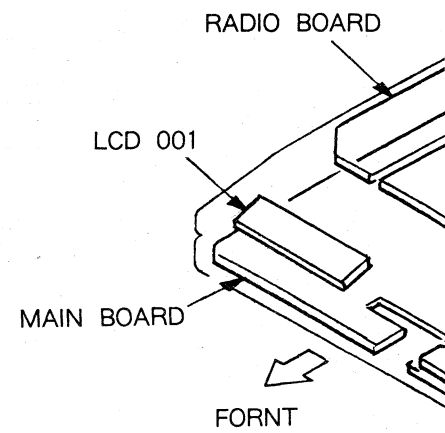
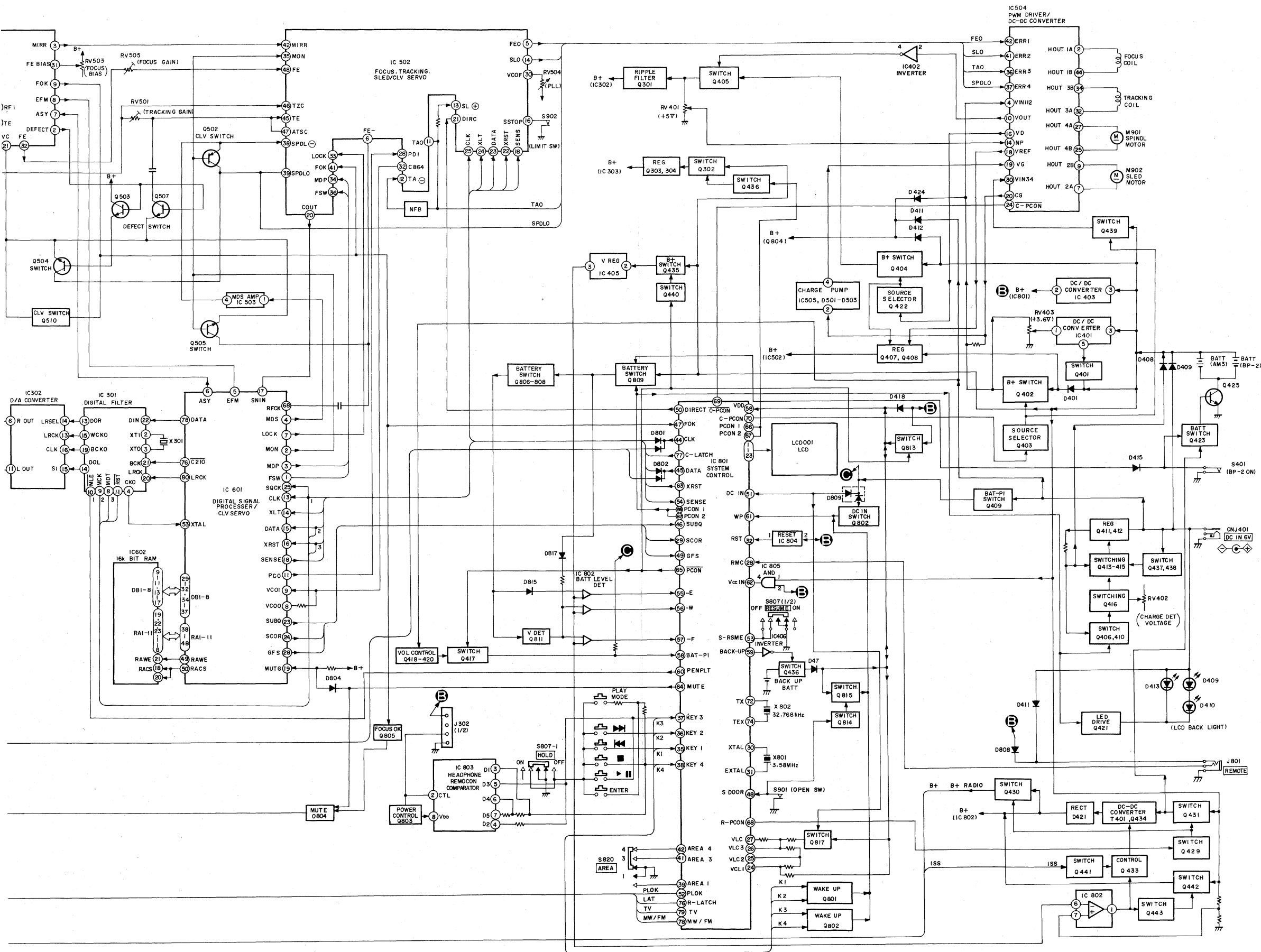
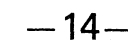
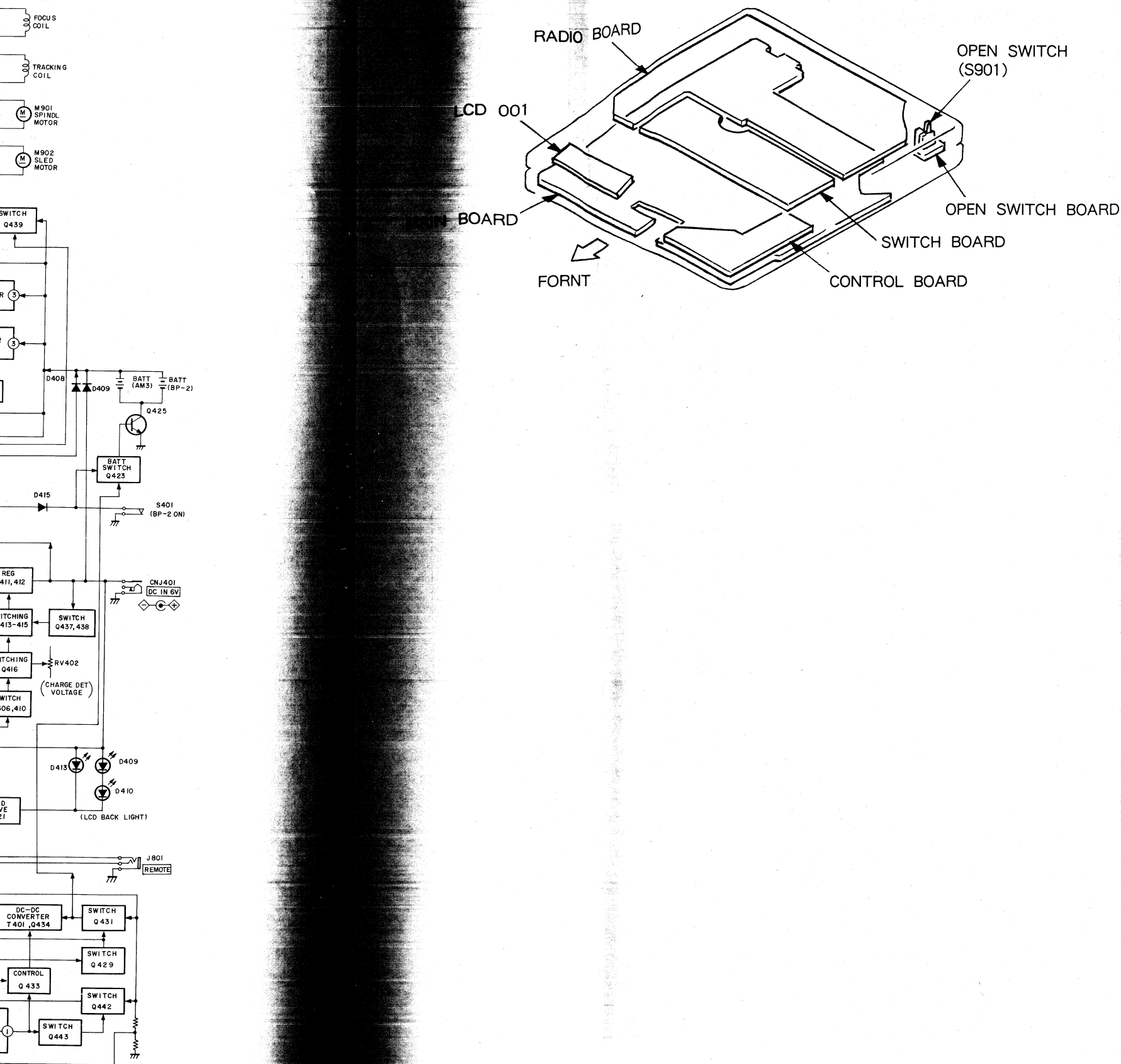


Diagram illustrating the front view of the radio board assembly. The components labeled are:

- RADIO BOARD
- LCD 001
- MAIN BOARD
- FORNT (Front)

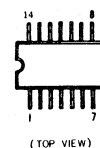


CIRCUIT BOARD LOCATION

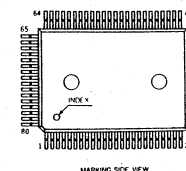


4-4. SEMICONDUCTOR LEAD LAYOUT

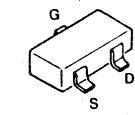
BA10339F
CXD118M



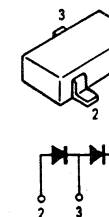
CXP5078-055Q



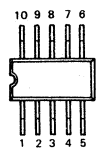
2SK160-K5
2SK160-K6
2SK208-Y



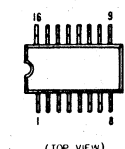
1SS226



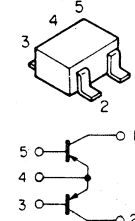
LA4533M



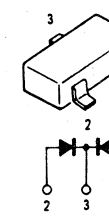
BA1362FS
UPD6376



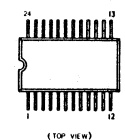
FMS1
XN1401



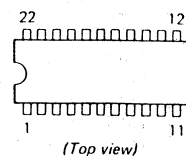
KV1560
MA152WK
SVC203CP



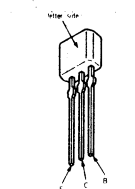
CX20111-L



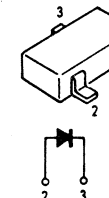
BA3570F



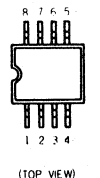
2SD999CLCK



RB411D
RD10M-B2
SB01-05CP

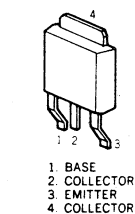


BA3818F-SY
TA7358F-N
MB3776APF

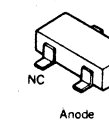


DTA114TK
DTA124EK
DTC114EK
DTC124EK
DTC144WK
RN104
2SA1037K-QR
2SB624-BV4
2SB624-BV345
2SB1218A-QRS
2SB1295-UL6
2SC1623
2SC2223-F14
2SC2412K-QR
2SC2712
2SC2713
2SC4177
2SC4178
2SC4718-F14
2SD596
2SD1328-T
2SD1731K-R

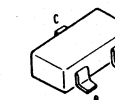
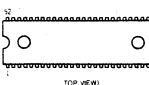
2SB1182F5-Q



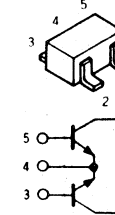
SB10-05PCP



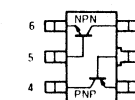
SM5840AS



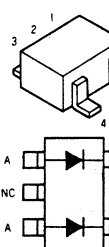
FMW7
XN1216



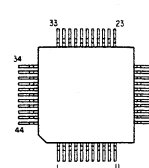
XN4312
XN4608
XN4609



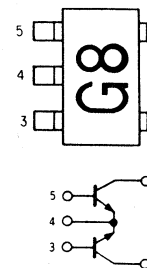
RB471E



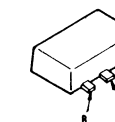
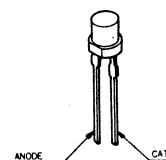
MPC1715FJ



FMG8

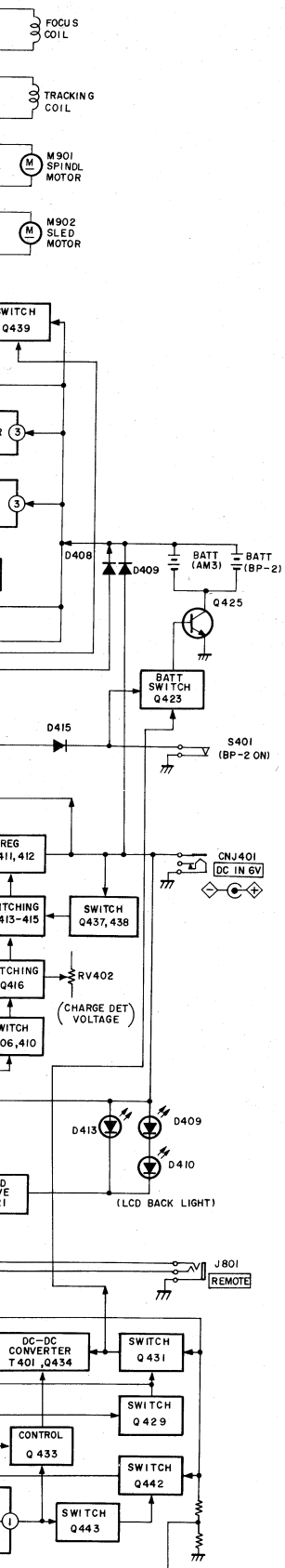
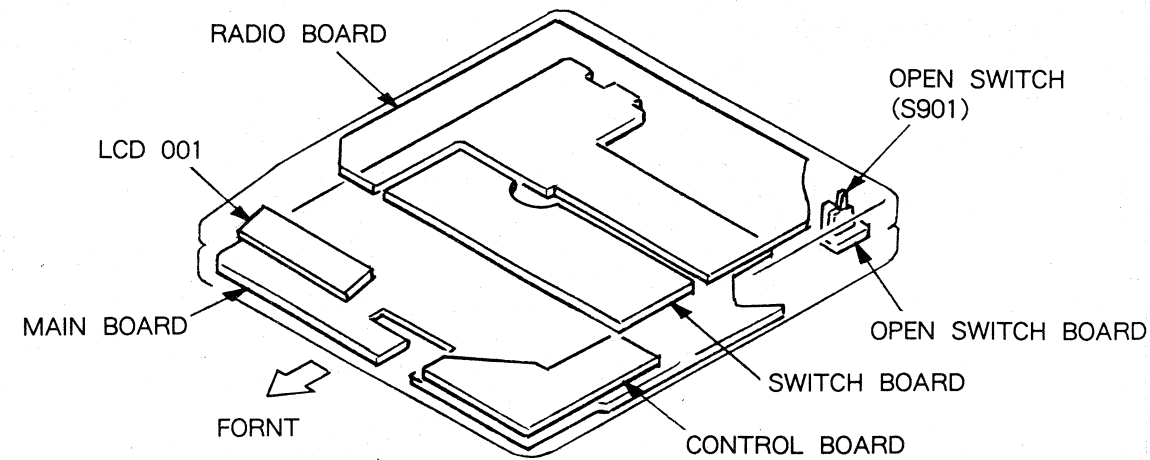


SEL2913K-D



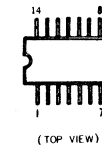
2SB1120
2SB1308-R
2SD1963-Q-R

4-3. CIRCUIT BOARD LOCATION

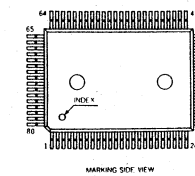


4-4. SEMICONDUCTOR LEAD LAYOUT

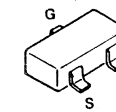
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CXD118M



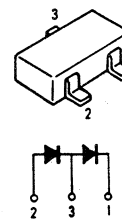
CXP5078-055Q



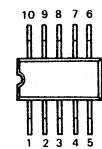
2SK160-K5
2SK160-K6
2SK208-Y



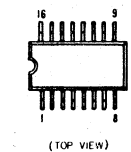
1SS226



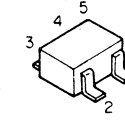
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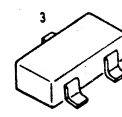
BA1362FS
UPD6376



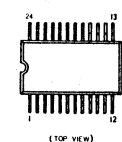
FMS1
XN1401



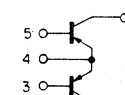
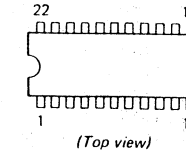
KV1560
MA152WK
SVC203CP



CX20111-L

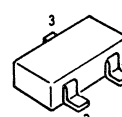


BA3570F

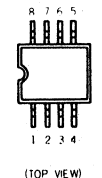


2SD999CLKK

RB411D
RD10M-B2
SB01-05CP

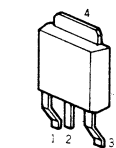


BA3818F-SY
TA7358F-N
MB3776APF

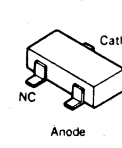


DTA114TK
DTA124EK
DTC114EK
DTC124EK
DTC144WK
RN104
2SA1037K-QR
2SB624-BV4
2SB624-BV345
2SB1218A-QRS
2SB1295-UL6
2SC1623
2SC2223-F14
2SC2412K-QR
2SC2712
2SC2713
2SC4177
2SC4178
2SC4718-F14
2SD596
2SD1328-T
2SD1731K-R

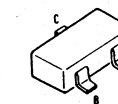
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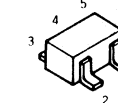
SB10-05PCP



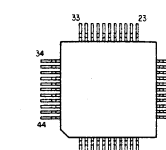
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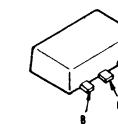
FMW7
XN1216



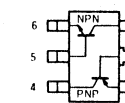
MPC1715FJ



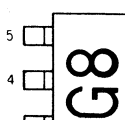
2SB1120
2SB1308-R
2SD1963-Q-R



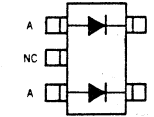
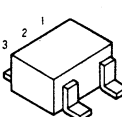
XN4312
XN4608
XN4609



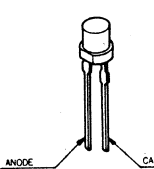
FMG8



RB471E



SEL2913K-D

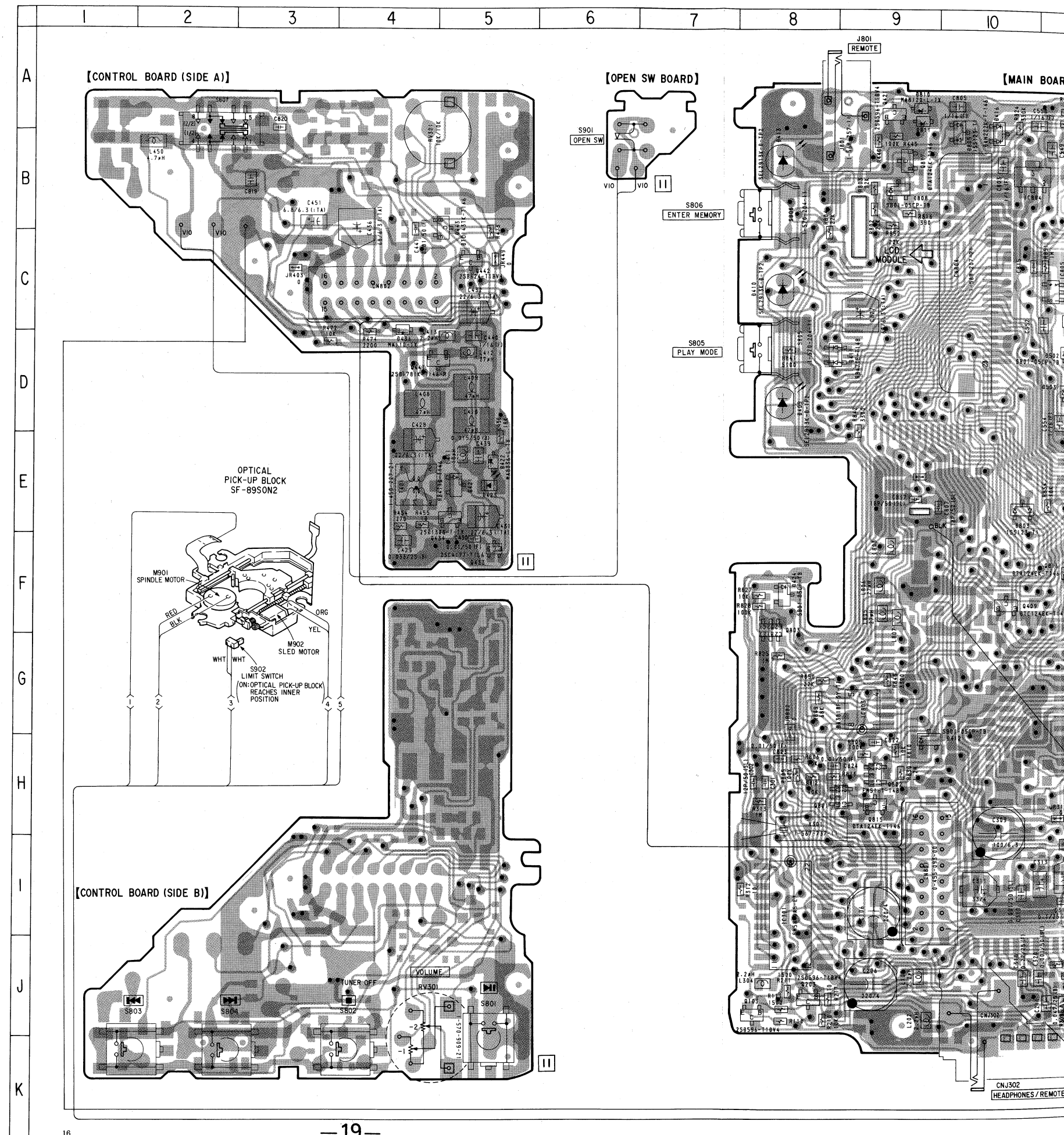


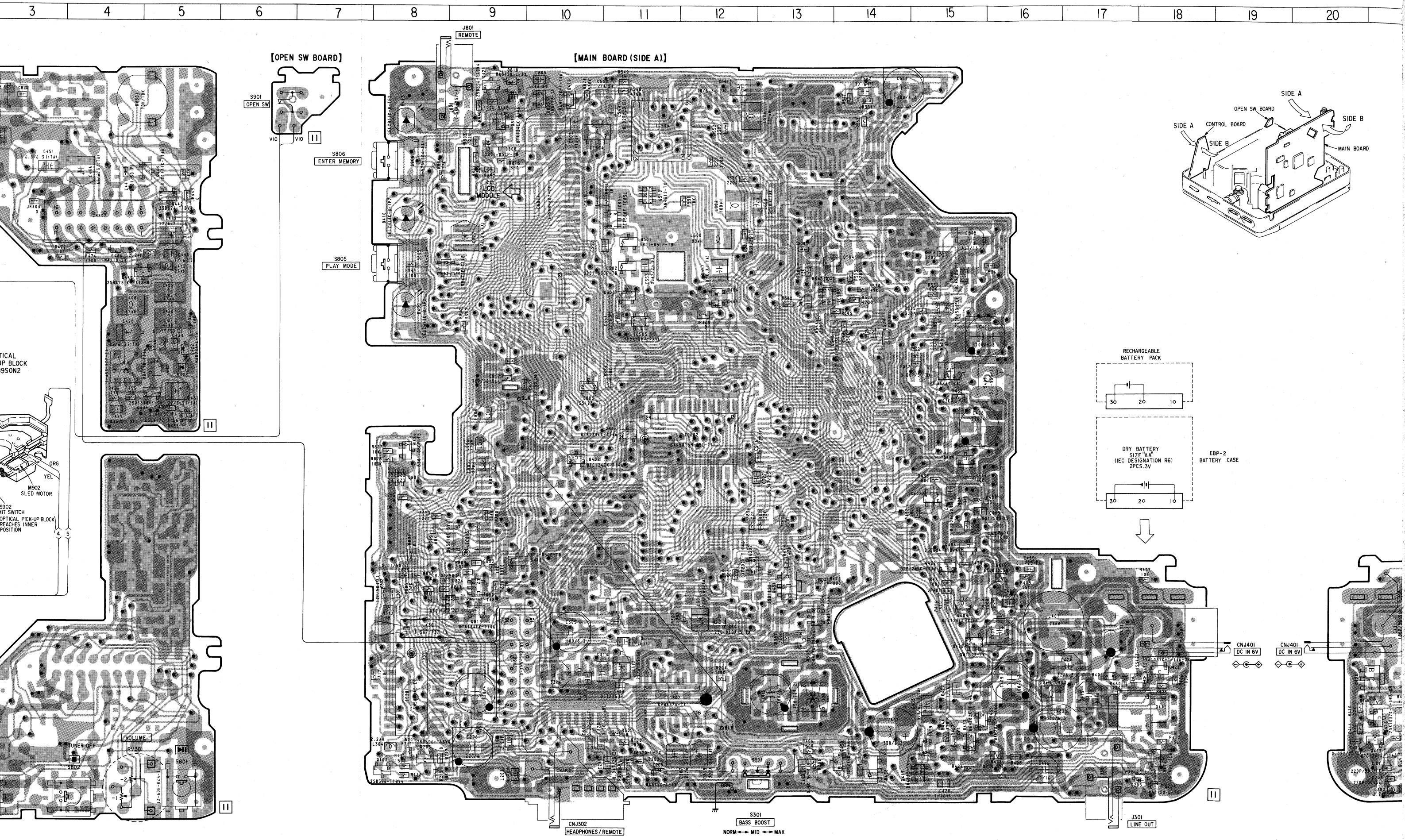
• Semiconductor Location

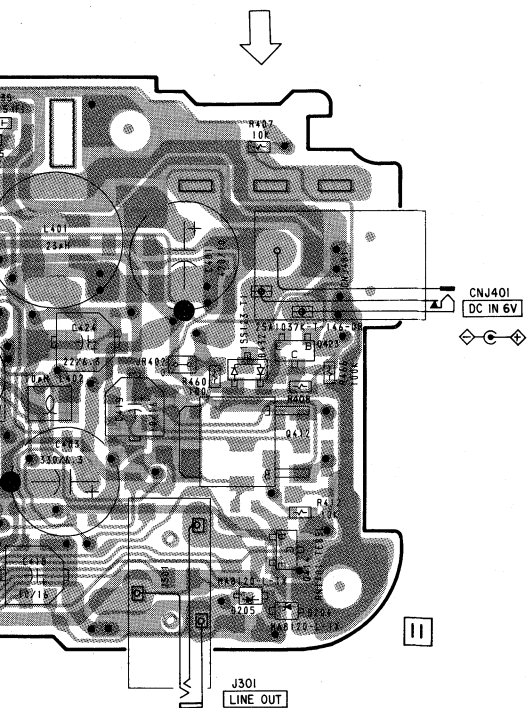
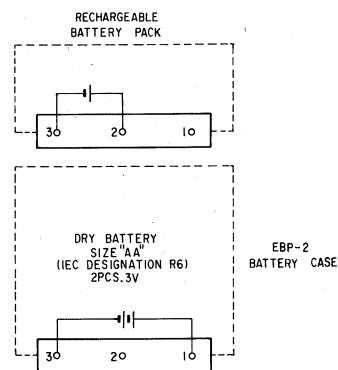
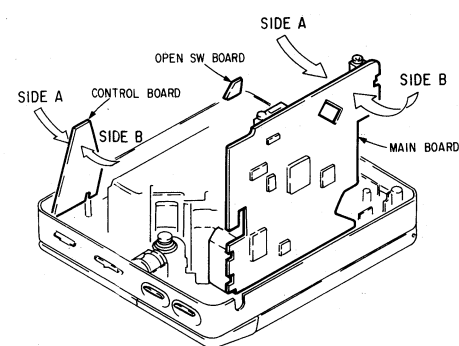
Ref. No.	Location	Ref. No.	Location
D202	J-11	IC805	C-11
D203	J-11		
D204	K-18	Q101	J-25
D205	K-18	Q102	H-26
D302	H-12	Q103	J-8
D303	J-29	Q201	J-26
D401	I-22	Q202	H-25
D402	F-23	Q203	J-8
D403	H-26	Q301	I-12
D404	J-26	Q302	H-25
D405	I-21	Q303	I-13
D407	J-24	Q304	H-13
D408	K-14	Q401	I-22
D409	D-8	Q402	J-22
D410	C-8	Q403	H-15
D411	D-8	Q404	G-15
D412	H-9	Q405	F-15
D413	B-8	Q406	J-22
D414	H-22	Q407	I-23
D415	G-23	Q408	I-15
D416	B-10	Q409	F-10
D417	E-27	Q410	J-22
D418	E-28	Q411	I-22
D419	J-15	Q412	J-18
D421	E-5	Q413	J-21
D422	E-5	Q414	J-18
D423	E-5	Q415	J-22
D424	F-8	Q416	J-21
D427	J-15	Q417	K-15
D430	H-25	Q418	J-23
D432	I-18	Q419	J-23
D433	D-12	Q420	J-23
D434	D-12	Q421	A-9
D435	J-16	Q422	H-15
D436	D-4	Q423	I-18
D437	D-27	Q425	I-21
D445	E-28	Q429	H-26
D501	C-11	Q430	H-27
D502	D-11	Q431	H-13
D503	D-11	Q432	G-24
D801	G-29	Q433	E-5
D802	G-29	Q434	E-5
D803	E-10	Q435	J-23
D804	F-30	Q436	E-26
D805	B-10	Q437	J-24
D807	E-28	Q438	J-14
D808	B-9	Q439	H-23
D809	F-28	Q440	J-24
D810	A-9	Q441	D-4
D811	A-9	Q442	C-5
D815	H-28	Q443	B-4
D816	H-29	Q501	B-24
D817	H-28	Q502	D-25
		Q503	D-25
		Q504	D-14
IC301	I-8	Q505	F-24
IC302	I-11	Q506	D-24
IC303	I-28	Q510	C-11
IC401	G-23	Q801	H-8
IC402	G-15	Q802	H-9
IC403	J-26	Q803	G-8
IC405	I-23	Q804	I-30
IC406	D-27	Q805	F-25
IC501	C-25	Q806	I-27
IC502	E-24	Q807	I-27
IC503	D-14	Q808	H-28
IC504	B-11	Q809	H-28
IC505	E-11	Q811	H-27
IC601	G-27	Q813	E-27
IC602	F-12	Q814	H-30
IC801	D-29	Q815	H-9
IC802	G-28	Q816	F-11
IC803	G-9	Q817	B-9
IC804	B-10		

Note on Mounting Diagram:

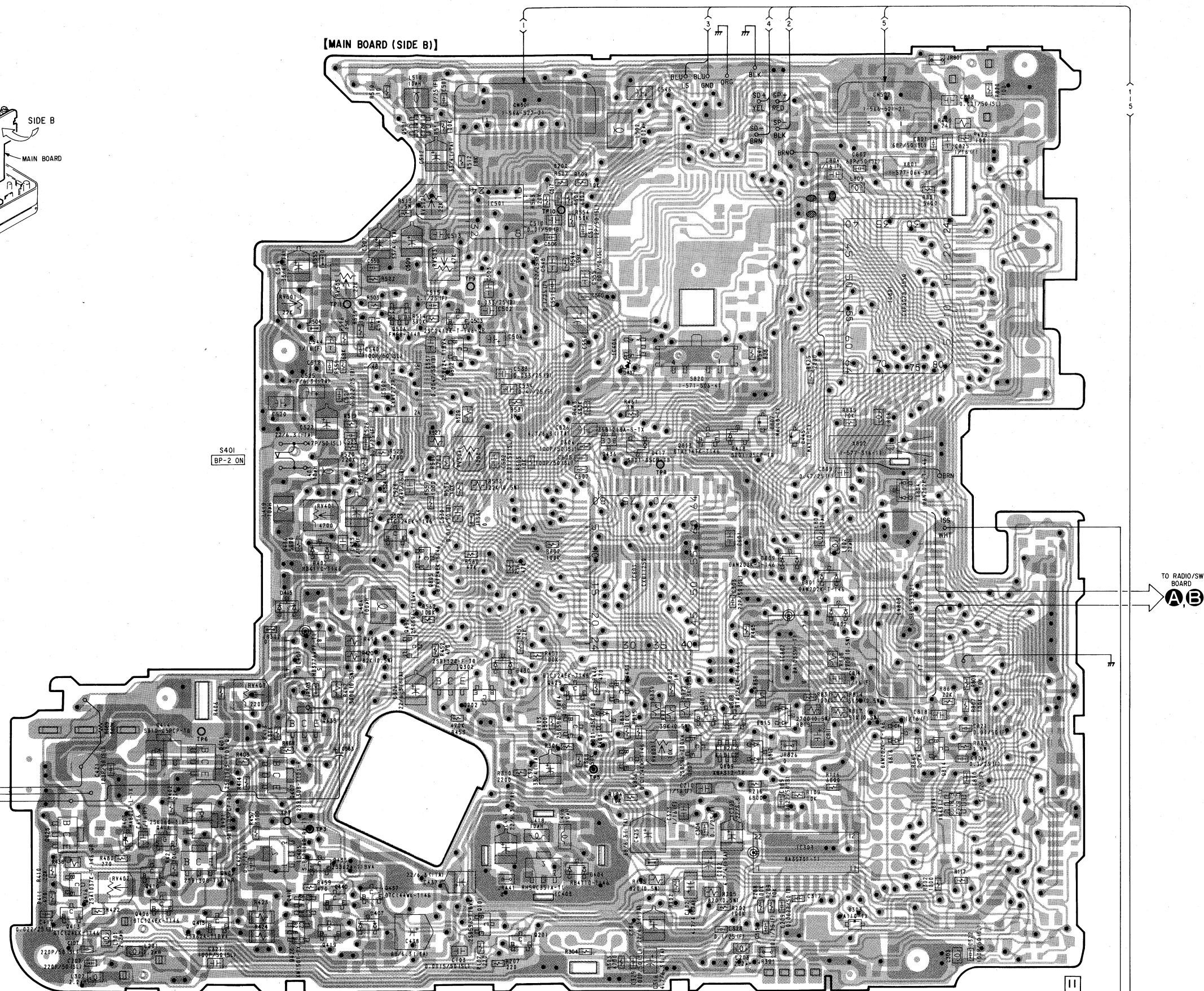
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▩ : Pattern of the rear side.

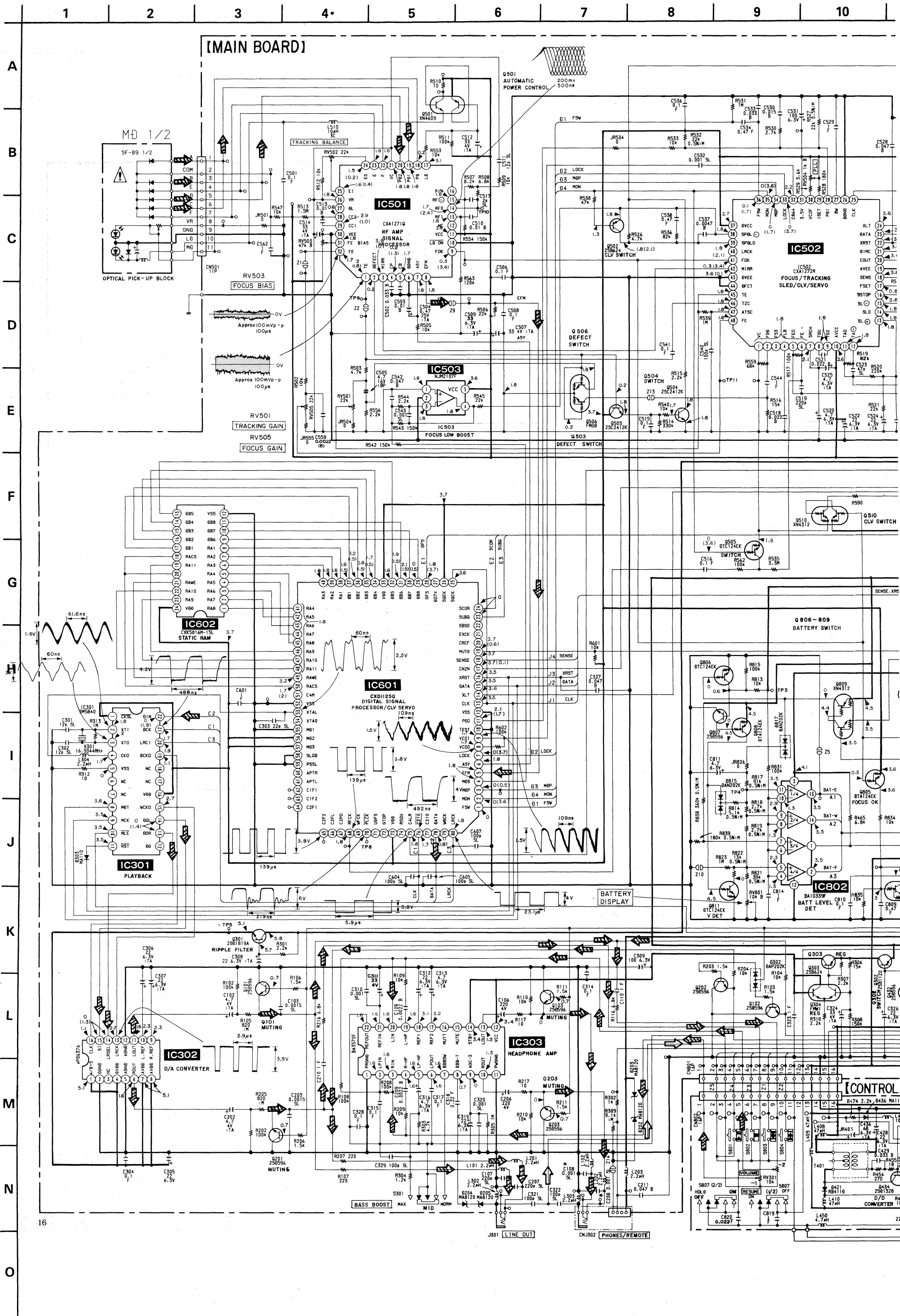


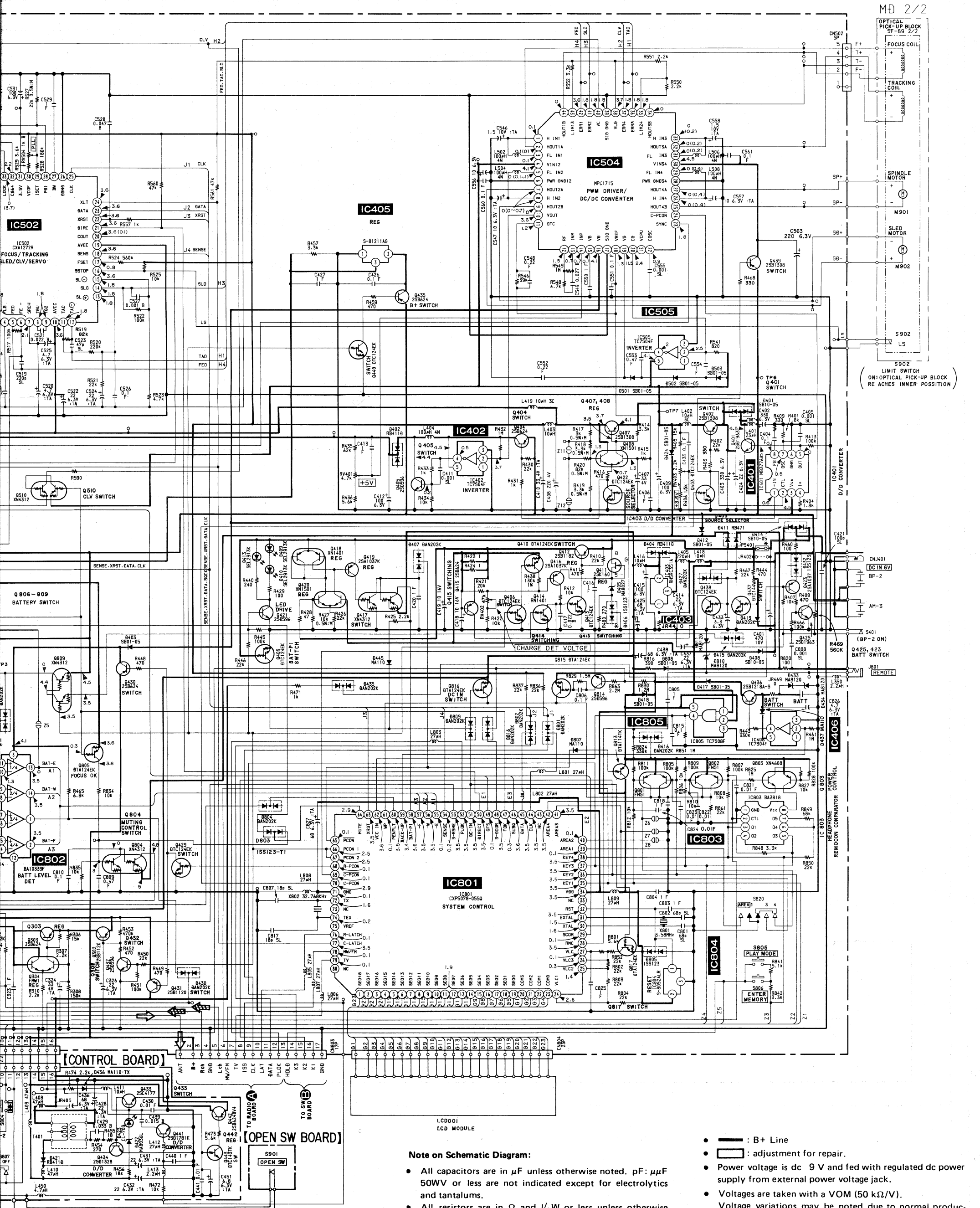




[MAIN BOARD (SIDE B)]







Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- --- : B+ Line
- --- : adjustment for repair.
- Power voltage is dc 9 V and fed with regulated dc power supply from external power voltage jack.
- Voltages are taken with a VOM (50 $\text{k}\Omega/\text{V}$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
 - \Rightarrow : FM
 - \Rightarrow : CD



- All capacitors are in μF unless otherwise noted. pF: μmF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- % : indicates tolerance.



[illegible]

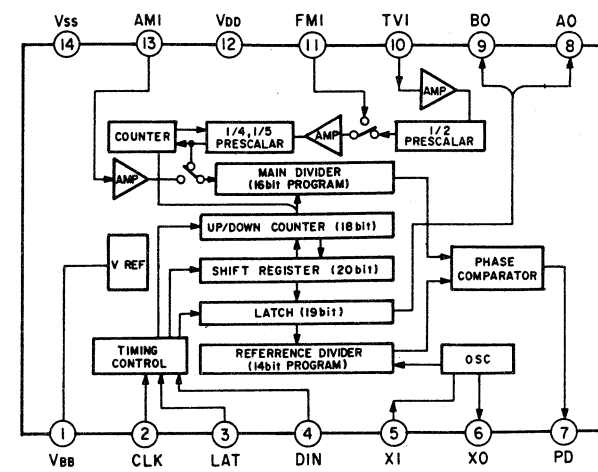
Ref. No.	Location
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D002	C-16
D003	C-16
D004	C-11
D005	C-10
D006	H-16
D007	H-16
D011	B-11
D012	B-11
D013	B-11
D014	D-11
D015	D-12
D017	E-8
D018	G-15
D999	H-15
IC001	E-15
IC002	F-16
IC003	D-10
IC004	D-9
Q001	C-12
Q002	D-15
Q003	E-16
Q004	B-16
Q005	B-16
Q006	E-14
Q007	E-10
Q008	E-11
Q009	F-13
Q010	G-15
Q011	G-16
Q012	G-16
Q013	C-10
Q014	C-10
Q015	C-10
Q016	C-9
Q017	H-16
Q018	H-16
Q019	H-15
Q020	E-9

- ■ : parts mounted on the conductor side.
- ▨ : Pattern on the side which is seen.
- ▩ : Pattern of the rear side.

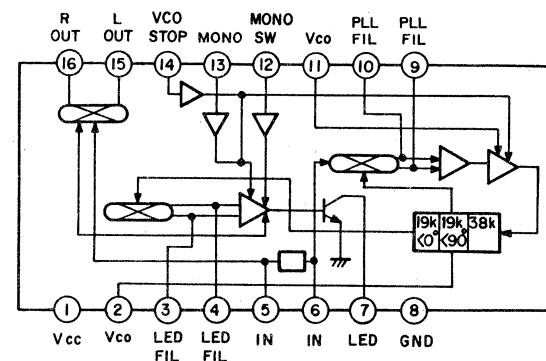
S3
2
↑
↓ TUNER ISS
1

4-9. IC BLOCK DIAGRAM

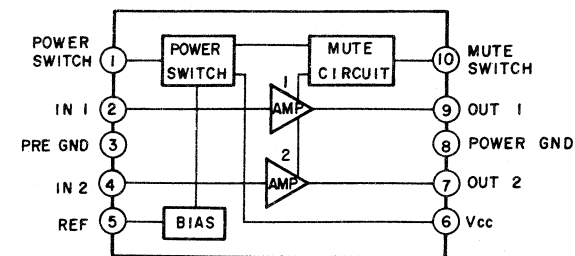
IC002 CXD1118M-1



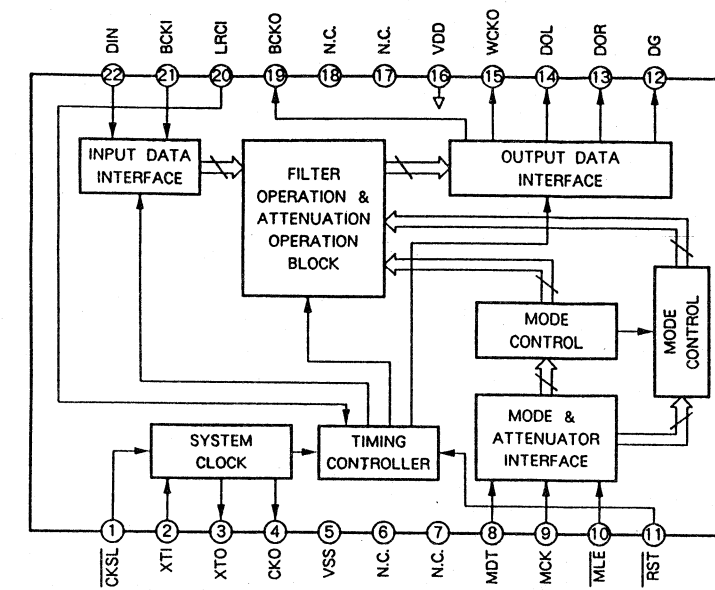
IC003 BA1362FS



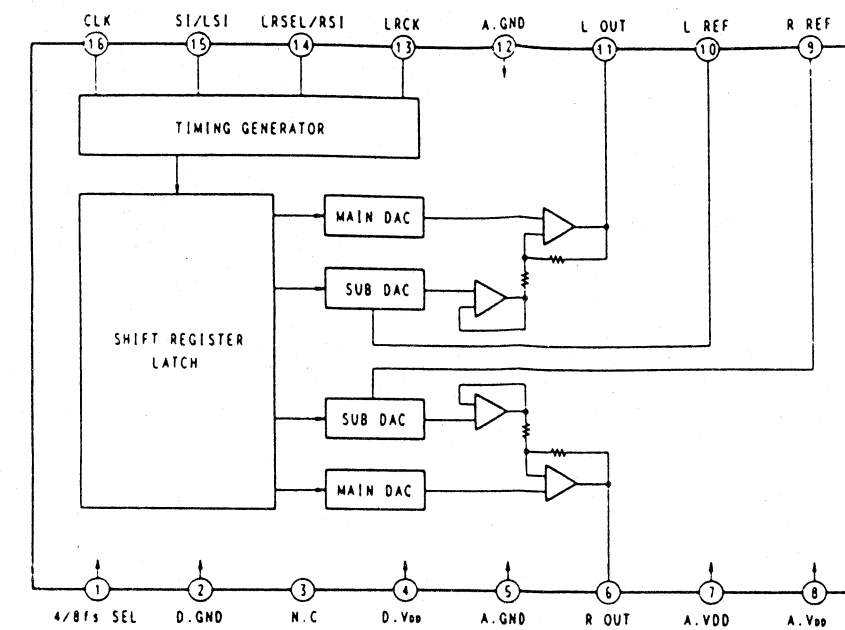
IC004 LA4533M



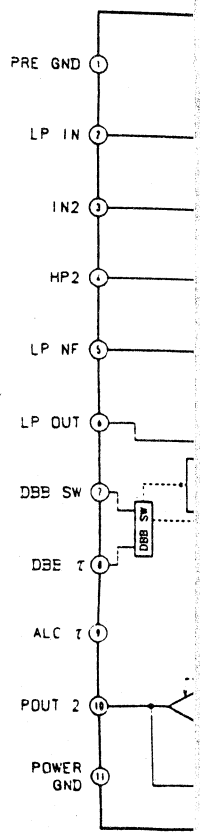
IC301 SM5840AS



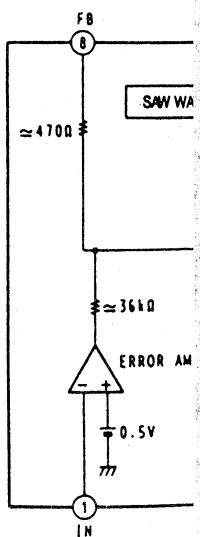
IC302 μ PD6376



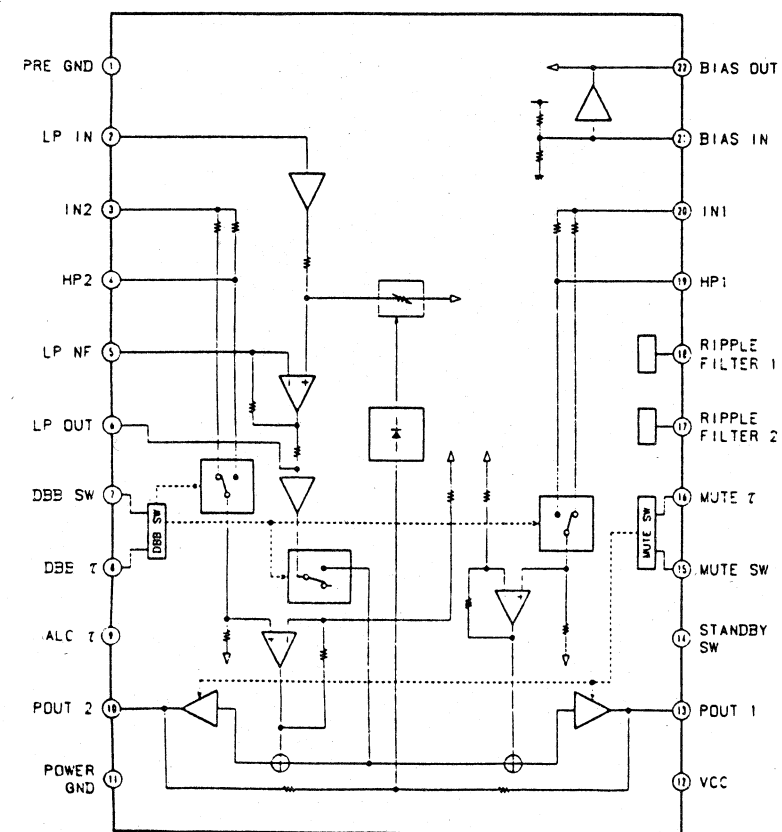
IC303 BA3570F



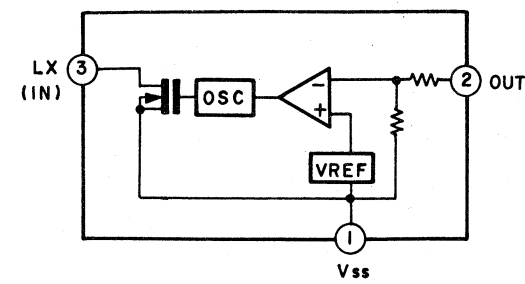
IC401 MB3776A



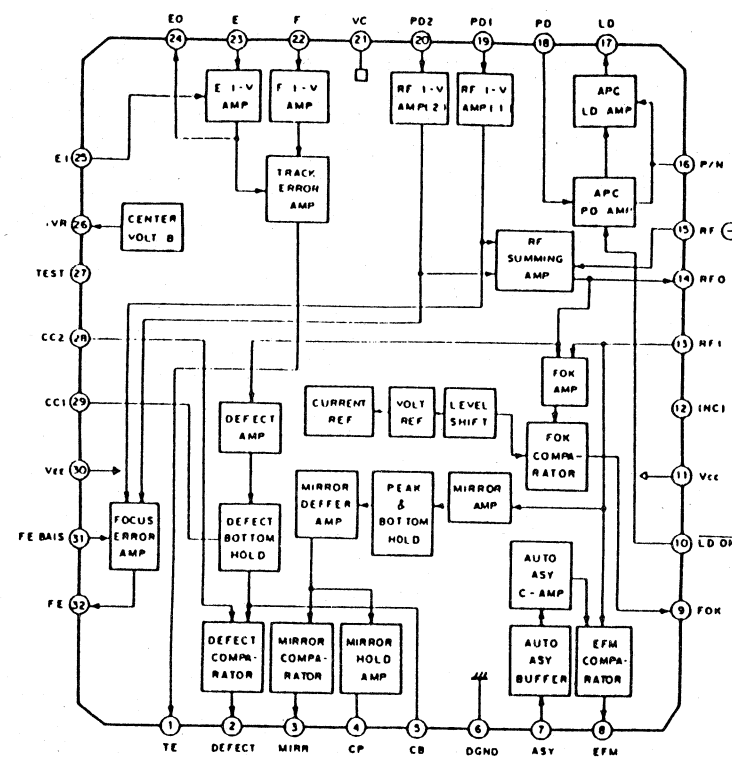
IC303 BA3570F



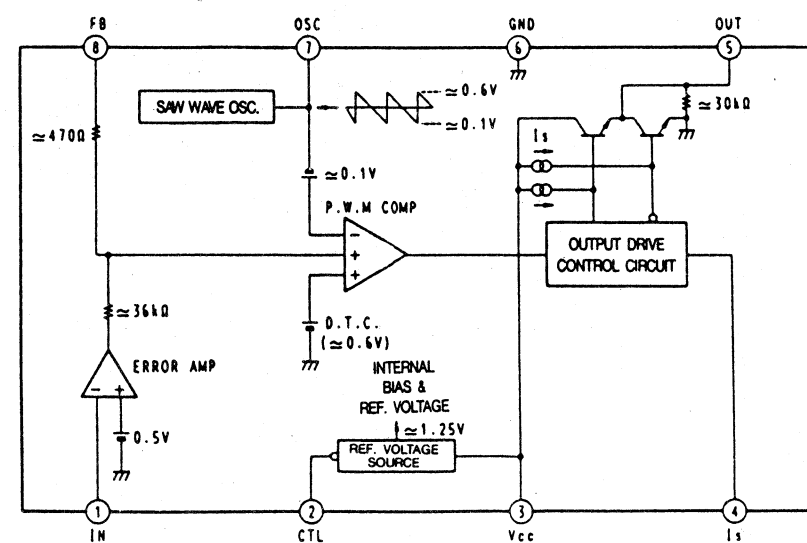
IC403 RH5RC351A



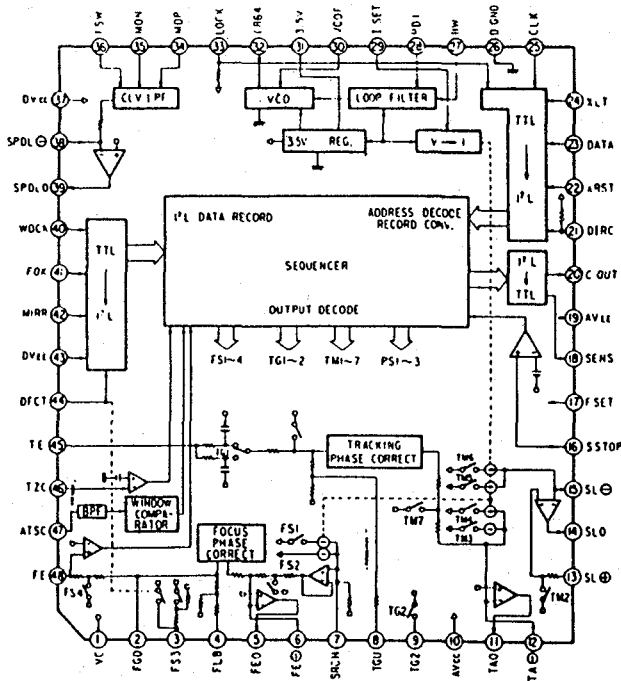
IC501 CXA1271Q



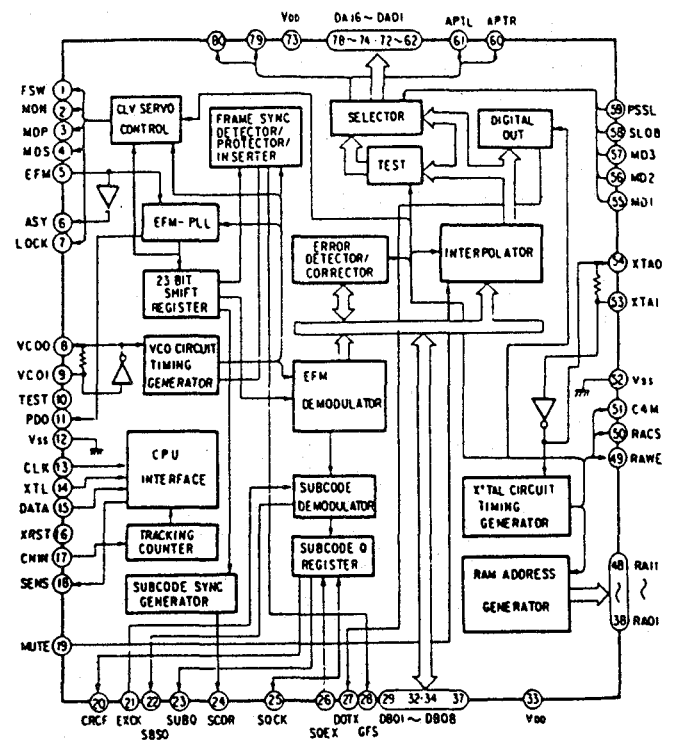
IC401 MB3776APF



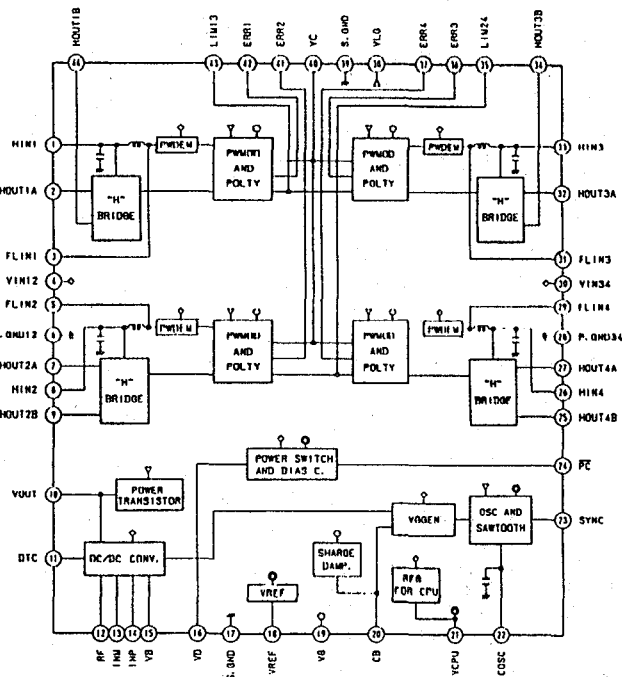
IC502 CXA1272Q



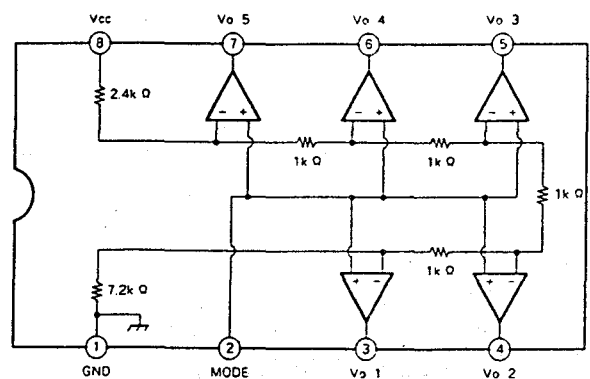
IC601 CXD1125Q



IC504 MPC1715



IC803 BA3818F-SY



SECTION 5

EXPLODED VIEWS



NOTE:


- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)

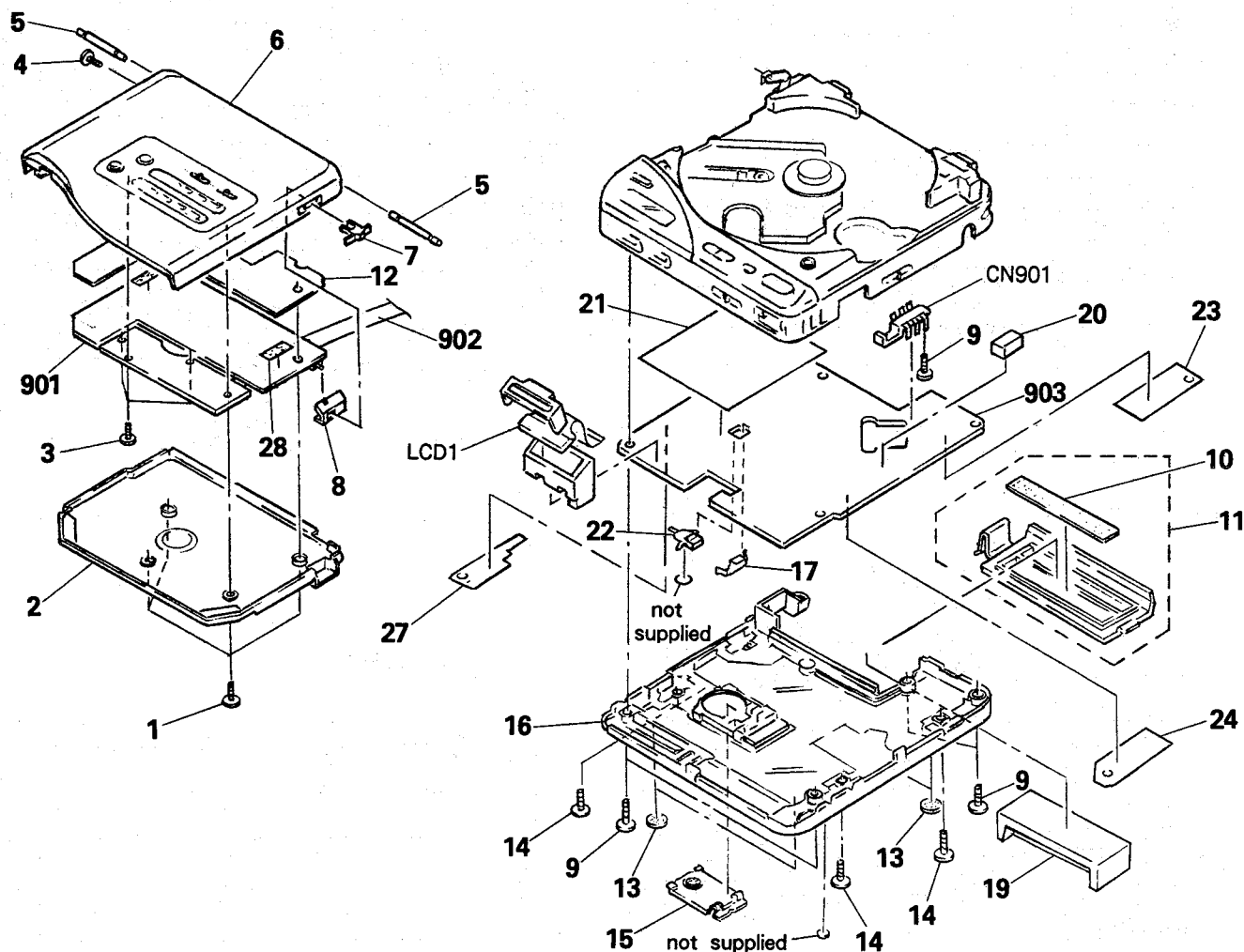
↑
Cabinet's Color

↑
Parts' Color

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

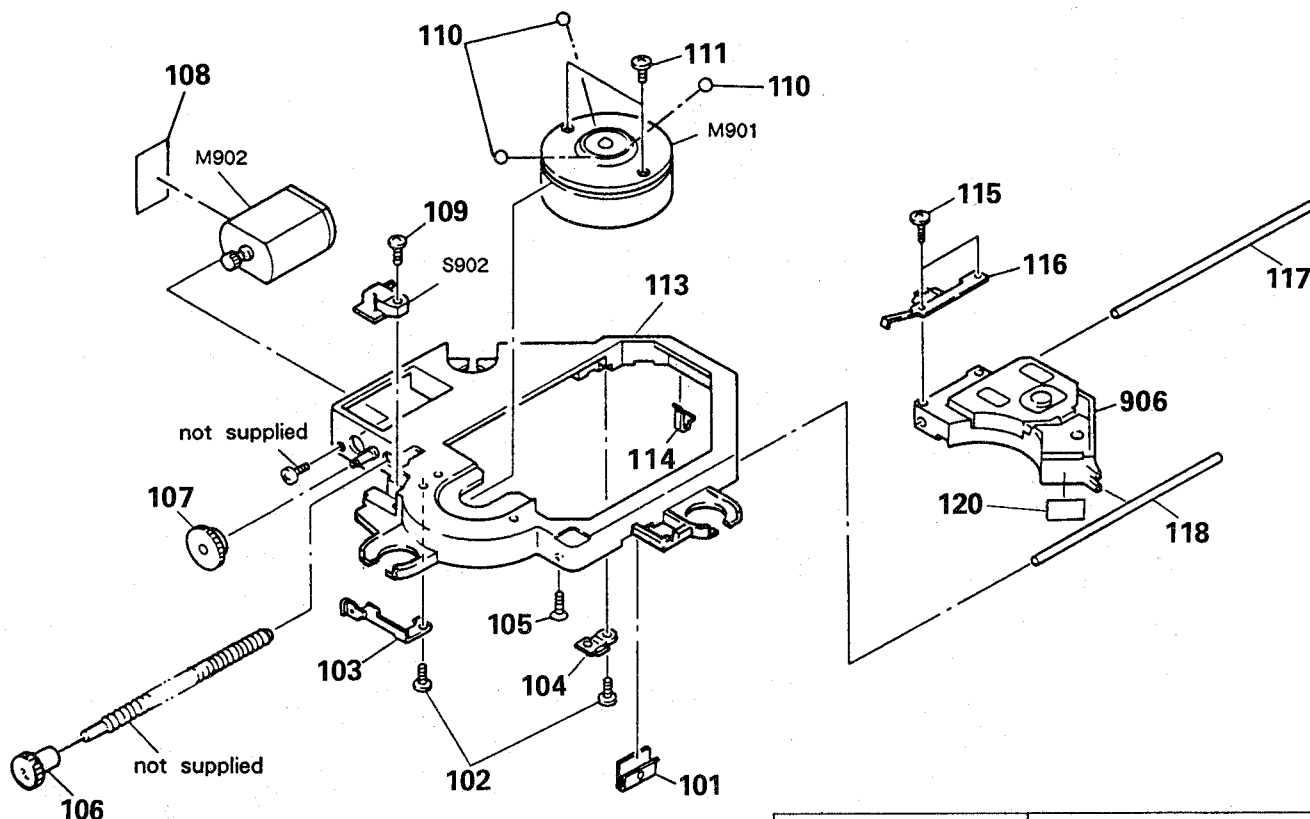
5-1. CABINET SECTION






No.	Part No.	Description	Remarks
1	4-941-315-01	SCREW, TAPPING 1.7	
2	4-941-338-01	COVER, TUNER	
3	3-893-942-01	SCREW (1.7X4), TAPPING (B)	
4	4-931-890-01	SCREW (M1.7X0.35)	
5	4-931-825-01	SHAFT (FULCRUM)	
6	X-4941-054-1	LID SUB ASSY, UPPER	
7	4-941-324-01	KNOB (ISS)	
8	4-941-327-01	SLIDER (ISS)	
9	7-621-283-10	SCREW (B2X10) (G), TAPPING	
10	9-911-815-01	CUSHION (A)	
11	X-4930-136-1	LID ASSY, BATTERY CASE	
12	*4-941-326-01	PLATE (TU), SHIELD	
13	4-912-641-01	FOOT, RUBBER	
14	3-703-816-42	SCREW (M1.4X2.5), SPECIAL HEAD	
15	X-4941-050-1	LID (LITUM) ASSY, BATTERY	


No.	Part No.	Description	Remarks
16	X-4941-051-1	PANEL ASSY, BOTTOM	
17	4-941-320-01	LUG (+), LITUM	
18	*4-941-331-01	PLATE (MICOM), SHIELD	
19	X-4930-117-1	CASE ASSY, BATTERY	
20	*4-941-329-01	CASE (CD UPPER), SHIELD	
21	*4-941-330-01	SHEET (CD), SHIELD	
22	4-941-334-01	LUG (LITUM -), BATTERY	
23	*4-942-262-01	SHEET (LINE), INSULATING	
24	*4-942-260-01	SHEET (PHONE), INSULATING	
27	*4-942-261-01	SHEET (REMOTE), INSULATING	
28	*4-563-500-01	SHEET (S), ADHESIVE	
901	A-3015-927-A	PC BOARD ASSY, RADIO	
902	1-636-310-11	PC BOARD, RADIO FLEXIBLE	
903	A-3015-925-A	PC BOARD ASSY, MAIN	

5-3. MECHANISM SECTION (CDM-66)



Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	4-932-779-11	RETAINER (A), FLEXIBLE		111	7-627-450-48	SCREW, PRECISION +K1.7X2.5 TYPE1	
102	3-895-823-41	SCREW (B1.4X4), TAPPING		113	4-931-864-01	CHASSIS, MD	
103	4-931-863-01	SPRING, LEAF		114	4-932-777-01	RETAINER (B), FLEXIBLE	
104	4-932-776-01	RETAINER, SHAFT		115	3-303-809-01	SCREW (M1.7X2.0), SPECIAL HEAD	
105	4-941-983-01	SCREW (B1.7X6), SPECIAL		116	4-932-785-11	RACK (OUTSERT)	
106	4-932-774-01	GEAR (C)		117	4-932-784-01	SHAFT (A)	
107	4-931-861-01	GEAR (B)		118	4-931-862-01	SHAFT (B)	
108	3-831-441-11	CUSHION (B)		119	4-941-987-01	WASHER, POLYETHYLENE	
109	4-908-792-91	SCREW (B2X7), TAPPING, P1		120	4-941-190-01	SPACER (PAL)	
110	7-671-155-01	STEEL BALL 3.0		906	 X-4930-137-1	PICKUP, OPTICAL (SF-89SON2)	
				M902	X-4921-256-1	MOTOR, SLED	
				S902	1-572-025-11	MICRO SW	
				M901	A-3133-413-A	MOTOR ASSY, CLV	

SECTION 6

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
UA....: μ A..., UPA....: μ PA...,
UPC....: μ PC, UPD....: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
901	A-3015-927-A	PC BOARD ASSY, RADIO				C031	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V	
902	1-636-310-11	PC BOARD, RADIO FLEXIBLE				C032	1-162-953-11	CERAMIC CHIP 100PF	5%	50V	
903	A-3015-925-A	PC BOARD ASSY, MAIN				C033	1-135-158-21	TANTAL. CHIP 15MF	20%	4V	
904	*1-636-311-11	PC BOARD, CONTROL				C034	1-135-180-21	TANTAL. CHIP 3.3MF	20%	4V	
905	*1-636-313-11	PC BOARD, OPEN SW				C035	1-162-995-11	CERAMIC CHIP 0.022MF		50V	
906	Δ .X-4930-137-1	PICKUP, OPTICAL (SF-89SON2)				C036	1-135-158-21	TANTAL. CHIP 15MF	20%	4V	
C41	1-135-091-00	TANTAL. CHIP 1MF	10%	16V		C037	1-164-234-11	CERAMIC CHIP 1MF		10V	
C43	1-135-091-00	TANTAL. CHIP 1MF	10%	16V		C038	1-162-953-11	CERAMIC CHIP 100PF	5%	50V	
C44	1-162-942-11	CERAMIC CHIP 12PF	5%	50V		C039	1-162-953-11	CERAMIC CHIP 100PF	5%	50V	
C45	1-162-941-11	CERAMIC CHIP 10PF	0.5PF	50V		C040	1-162-974-11	CERAMIC CHIP 0.01MF		50V	
C48	1-164-005-11	CERAMIC CHIP 0.47MF		25V		C042	1-164-227-11	CERAMIC CHIP 0.022MF	10%	25V	
C53	1-164-005-11	CERAMIC CHIP 0.47MF		25V		C046	1-162-944-11	CERAMIC CHIP 18PF	5%	50V	
C63	1-135-207-11	TANTAL. CHIP 68MF	20%	6.3V		C047	1-162-962-11	CERAMIC CHIP 470PF	10%	50V	
C001	1-162-995-11	CERAMIC CHIP 0.022MF		50V		C049	1-164-222-11	CERAMIC CHIP 0.22MF		25V	
C002	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V		C050	1-164-234-11	CERAMIC CHIP 1MF		10V	
C003	1-162-932-11	CERAMIC CHIP 2PF	0.25PF	50V		C051	1-163-141-00	CERAMIC CHIP 0.001MF	1%	50V	
C004	1-162-962-11	(AEP)...CERAMIC CHIP 470PF	10%	50V		C052	1-162-995-11	CERAMIC CHIP 0.022MF		50V	
C004	1-162-966-11	(E)....CERAMIC CHIP 0.0022MF	10%	50V		C054	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C005	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V		C055	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	50V	
C006	1-162-974-11	CERAMIC CHIP 0.01MF		50V		C056	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V	
C007	1-162-932-11	(E)...CERAMIC CHIP 2PF		50V		C057	1-164-234-11	CERAMIC CHIP 1MF		10V	
C008	1-162-999-11	(AEP)...CERAMIC CHIP 91PF	5%	50V		C058	1-164-346-11	CERAMIC CHIP 1MF		16V	
C008	1-162-966-11	(E)....CERAMIC CHIP 0.0022MF	10%	50V		C059	1-135-158-21	TANTAL. CHIP 15MF	20%	4V	
C009	1-162-934-11	CERAMIC CHIP 3PF	0.25PF	50V		C060	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V	
C010	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V		C061	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V	
C011	1-135-158-21	TANTAL. CHIP 15MF	20%	4V		C062	1-163-011-11	CERAMIC CHIP 0.0015MF	10%	50V	
C012	1-162-995-11	CERAMIC CHIP 0.022MF		50V		C063	1-135-144-11	ELECT CHIP 22MF	20%	6.3V	
C013	1-135-158-21	TANTAL. CHIP 15MF	20%	4V		C064	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C014	1-164-227-11	CERAMIC CHIP 0.022MF	10%	25V		C065	1-164-234-11	CERAMIC CHIP 1MF		10V	
C015	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V		C066	1-162-953-11	CERAMIC CHIP 100PF	5%	50V	
C016	1-162-974-11	CERAMIC CHIP 0.01MF		50V		C067	1-162-638-11	CERAMIC CHIP 1MF		16V	
C017	1-162-974-11	CERAMIC CHIP 0.01MF		50V		C068	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V	
C018	1-164-156-11	CERAMIC CHIP 0.1MF		25V		C069	1-162-953-11	CERAMIC CHIP 100PF	5%	50V	
C019	1-162-974-11	CERAMIC CHIP 0.01MF		50V		C070	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V	
C020	1-163-197-00	CERAMIC CHIP 470PF	5%	50V		C071	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V	
C021	1-163-095-00	CERAMIC CHIP 12PF	5%	50V		C072	1-162-953-11	CERAMIC CHIP 100PF	5%	50V	
C022	1-162-974-11	CERAMIC CHIP 0.01MF		50V		C073	1-162-953-11	CERAMIC CHIP 100PF	5%	50V	
C023	1-162-974-11	CERAMIC CHIP 0.01MF		50V		C074	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C024	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V		C075	1-164-234-11	CERAMIC CHIP 1MF		10V	
C025	1-164-156-11	CERAMIC CHIP 0.1MF		25V		C076	1-164-182-11	CERAMIC CHIP 0.0033MF	10%	50V	
C026	1-163-133-00	CERAMIC CHIP 470PF	5%	50V		C077	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C027	1-162-974-11	CERAMIC CHIP 0.01MF		50V		C078	1-135-158-21	TANTAL. CHIP 15MF	20%	4V	
C028	1-162-974-11	CERAMIC CHIP 0.01MF		50V		C079	1-163-011-11	CERAMIC CHIP 0.0015MF	10%	50V	
C029	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V		C080	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C030	1-164-234-11	CERAMIC CHIP 1MF		10V		C081	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V	
						C082	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V	

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
C083	1-162-953-11	CERAMIC CHIP 100PF	5%	50V		C328	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C084	1-164-234-11	CERAMIC CHIP 1MF		10V		C329	1-162-953-11	CERAMIC CHIP 100PF	5%	50V	
C085	1-164-156-11	CERAMIC CHIP 0.1MF		25V		C401	1-124-472-11	ELECT	20%	10V	
C086	1-135-174-11	TANTAL. CHIP 10MF	20%	10V		C402	1-126-245-11	ELECT	20%	6.3V	
C088	1-164-227-11	CERAMIC CHIP 0.022MF	10%	25V		C403	1-126-245-11	ELECT	330MF	20%	6.3V
C089	1-164-227-11	CERAMIC CHIP 0.022MF	10%	25V		C404	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C090	1-164-227-11	CERAMIC CHIP 0.022MF	10%	25V		C405	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	
C091	1-162-951-11	CERAMIC CHIP 68PF	5%	50V		C406	1-164-346-11	CERAMIC CHIP 1MF		16V	
C092	1-162-951-11	CERAMIC CHIP 68PF	5%	50V		C407	1-126-207-11	ELECT CHIP	33MF	20%	4V
C093	1-164-227-11	CERAMIC CHIP 0.022MF	10%	25V		C408	1-126-246-11	ELECT CHIP	220MF	20%	4V
C094	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V		C409	1-126-206-11	ELECT CHIP	100MF	20%	6.3V
C095	1-164-156-11	CERAMIC CHIP 0.1MF		25V		C410	1-135-162-21	TANTAL. CHIP	33MF	20%	4V
C096	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V		C411	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	
C097	1-164-346-11	CERAMIC CHIP 1MF		16V		C412	1-126-206-11	ELECT CHIP	100MF	20%	6.3V
C098	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V		C413	1-164-346-11	CERAMIC CHIP 1MF		16V	
C099	1-135-156-21	TANTAL. CHIP 6.8MF	20%	6.3V		C414	1-135-144-11	TANTAL. CHIP	22MF	20%	6.3V
C100	1-164-346-11	CERAMIC CHIP 1MF		16V		C415	1-126-206-11	ELECT CHIP	100MF	20%	6.3V
C101	1-164-346-11	CERAMIC CHIP 1MF		16V		C416	1-164-346-11	CERAMIC CHIP 1MF		16V	
C102	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V		C417	1-164-227-11	CERAMIC CHIP 0.022MF	10%	25V	
C103	1-163-145-00	CERAMIC CHIP 0.0015MF	5%	50V		C418	1-124-779-00	ELECT CHIP	10MF	20%	16V
C104	1-164-346-11	CERAMIC CHIP 1MF		16V		C419	1-124-779-00	ELECT CHIP	10MF	20%	16V
C106	1-126-246-11	ELECT CHIP	20%	4V		C420	1-164-346-11	CERAMIC CHIP 1MF		16V	
C107	1-162-957-11	CERAMIC CHIP 220PF	5%	50V		C421	1-162-953-11	CERAMIC CHIP 100PF	5%	50V	
C109	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V		C424	1-124-778-00	ELECT CHIP	22MF	20%	6.3V
C110	1-164-346-11	CERAMIC CHIP 1MF		16V		C425	1-135-207-11	TANTAL. CHIP	68MF	20%	6.3V
C202	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V		C426	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C203	1-163-145-00	CERAMIC CHIP 0.0015MF	5%	50V		C427	1-164-346-11	CERAMIC CHIP 1MF		16V	
C206	1-126-246-11	ELECT CHIP	20%	4V		C428	1-135-144-11	TANTAL. CHIP	22MF	20%	6.3V
C207	1-162-957-11	CERAMIC CHIP 220PF	5%	50V		C429	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V	
C209	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V		C430	1-162-974-11	CERAMIC CHIP 0.01MF		50V	
C210	1-164-346-11	CERAMIC CHIP 1MF		16V		C431	1-135-144-11	TANTAL. CHIP	22MF	20%	6.3V
C211	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V		C432	1-135-144-11	TANTAL. CHIP	22MF	20%	6.3V
C301	1-162-942-11	CERAMIC CHIP 12PF	5%	50V		C433	1-135-180-21	TANTAL. CHIP	3.3MF	20%	6.3V
C302	1-162-942-11	CERAMIC CHIP 12PF	5%	50V		C435	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C303	1-162-945-11	CERAMIC CHIP 22PF	5%	50V		C436	1-135-207-11	TANTAL. CHIP	68MF	20%	6.3V
C304	1-164-156-11	CERAMIC CHIP 0.1MF		25V		C437	1-135-144-11	TANTAL. CHIP	22MF	20%	6.3V
C305	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V		C438	1-135-207-11	TANTAL. CHIP	68MF	20%	6.3V
C306	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V		C439	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V	
C307	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V		C440	1-164-346-11	CERAMIC CHIP 1MF		16V	
C308	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V		C441	1-162-974-11	CERAMIC CHIP 0.01MF		50V	
C309	1-126-206-11	ELECT CHIP	100MF	20%	6.3V	C451	1-135-230-11	TANTAL. CHIP	6.8MF	20%	6.3V
C310	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V		C501	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C311	1-126-207-11	ELECT CHIP	33MF	20%	4V	C502	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V	
C312	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V		C503	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C313	1-135-130-11	TANTAL. CHIP 4.7MF	20%	6.3V		C504	1-135-145-11	TANTAL. CHIP	0.47MF	20%	25V
C314	1-164-156-11	CERAMIC CHIP 0.1MF		25V		C505	1-126-603-11	ELECT CHIP	4.7MF	20%	16V
C315	1-164-156-11	CERAMIC CHIP 0.1MF		25V		C506	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C316	1-135-130-11	TANTAL. CHIP 4.7MF	20%	6.3V		C507	1-135-162-21	TANTAL. CHIP	33MF	20%	4V
C317	1-164-156-11	CERAMIC CHIP 0.1MF		25V		C508	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C318	1-164-222-11	CERAMIC CHIP 0.22MF		25V		C509	1-135-162-21	TANTAL. CHIP	33MF	20%	4V
C319	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V		C510	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C320	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V		C511	1-162-942-11	CERAMIC CHIP 12PF	5%	50V	
C321	1-163-117-00	CERAMIC CHIP 100PF	5%	50V		C512	1-135-162-21	TANTAL. CHIP	33MF	20%	4V
C322	1-162-953-11	CERAMIC CHIP 100PF	5%	50V		C513	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	
C323	1-164-346-11	CERAMIC CHIP 1MF		16V		C514	1-135-162-21	TANTAL. CHIP	33MF	20%	4V
C324	1-135-162-21	TANTAL. CHIP 33MF	20%	4V		C515	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C326	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V		C516	1-164-156-11	CERAMIC CHIP 0.1MF		25V	
C327	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V		C517	1-162-932-11	CERAMIC CHIP 2PF	0.25PF	50V	

Ref.No.	Part No.	Description							
C518	1-164-227-11	CERAMIC CHIP 0.022MF	10%	25V					
C519	1-162-957-11	CERAMIC CHIP 220PF	5%	50V					
C520	1-135-130-11	TANTAL. CHIP 4.7MF	20%	6.3V					
C521	1-164-227-11	CERAMIC CHIP 0.022MF	10%	25V					
C522	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V					
C523	1-162-949-11	CERAMIC CHIP 47PF	5%	50V					
C524	1-135-144-11	TANTAL. CHIP 22MF	20%	6.3V					
C525	1-135-130-11	TANTAL. CHIP 4.7MF	20%	6.3V					
C526	1-164-156-11	CERAMIC CHIP 0.1MF		25V					
C527	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V					
C528	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V					
C529	1-164-346-11	CERAMIC CHIP 1MF		16V					
C530	1-163-023-00	CERAMIC CHIP 0.015MF	10%	50V					
C531	1-126-206-11	ELECT CHIP 100MF	20%	6.3V					
C532	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V					
C533	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V					
C534	1-164-005-11	CERAMIC CHIP 0.47MF		25V					
C536	1-164-156-11	CERAMIC CHIP 0.1MF		25V					
C537	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V					
C538	1-164-005-11	CERAMIC CHIP 0.47MF		25V					
C540	1-162-953-11	CERAMIC CHIP 100PF	5%	50V					
C541	1-164-156-11	CERAMIC CHIP 0.1MF		25V					
C542	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V					
C543	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V					
C544	1-164-346-11	CERAMIC CHIP 1MF		16V					
C546	1-135-148-21	TANTAL. CHIP 1.5MF	20%	10V					
C547	1-135-157-21	TANTAL. CHIP 10MF	20%	6.3V					
C548	1-164-222-11	CERAMIC CHIP 0.22MF		25V					
C549	1-163-986-00	CERAMIC CHIP 0.027MF	10%	25V					
C550	1-164-346-11	CERAMIC CHIP 1MF		16V					
C551	1-164-156-11	CERAMIC CHIP 0.1MF		25V					
C552	1-164-222-11	CERAMIC CHIP 0.22MF		25V					
C553	1-164-005-11	CERAMIC CHIP 0.47MF		25V					
C554	1-164-346-11	CERAMIC CHIP 1MF		16V					
C555	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V					
C556	1-135-157-21	TANTAL. CHIP 10MF	20%	6.3V					
C557	1-135-157-21	TANTAL. CHIP 10MF	20%	6.3V					
C558	1-135-148-21	TANTAL. CHIP 1.5MF	20%	10V					
C559	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V					
C560	1-164-156-11	CERAMIC CHIP 0.1MF		25V					
C561	1-164-156-11	CERAMIC CHIP 0.1MF		25V					
C562	1-164-346-11	CERAMIC CHIP 1MF		16V					
C601	1-164-346-11	CERAMIC CHIP 1MF		16V					
C604	1-162-953-11	CERAMIC CHIP 100PF	5%	50V					
C605	1-162-953-11	CERAMIC CHIP 100PF	5%	50V					
C607	1-162-953-11	CERAMIC CHIP 100PF	5%	50V					
C715	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V					
C716	1-162-909-11	CERAMIC CHIP 4PF	0.25PF	50V					
C801	1-162-951-11	CERAMIC CHIP 68PF	5%	50V					
C802	1-162-951-11	CERAMIC CHIP 68PF	5%	50V					
C803	1-164-346-11	CERAMIC CHIP 1MF		16V					
C804	1-164-346-11	CERAMIC CHIP 1MF		16V					
C805	1-164-346-11	CERAMIC CHIP 1MF		16V					
C806	1-164-156-11	CERAMIC CHIP 0.1MF		25V					
C807	1-162-944-11	CERAMIC CHIP 18PF	5%	50V					
C808	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V					
C809	1-164-005-11	CERAMIC CHIP 0.47MF		25V					
C810	1-164-156-11	CERAMIC CHIP 0.1MF		25V					
C811	1-135-130-11	TANTAL. CHIP 4.7MF	20%	6.3V					
C814	1-164-346-11	CERAMIC CHIP 1MF		16V					
C815	1-164-156-11	CERAMIC CHIP 0.1MF		25V					
C817	1-162-944-11	CERAMIC CHIP 18PF	5%	50V					
C818	1-164-346-11	CERAMIC CHIP 1MF		16V					
C819	1-164-346-11	CERAMIC CHIP 1MF		16V					
C820	1-162-995-11	CERAMIC CHIP 0.022MF		50V					
C821	1-162-974-11	CERAMIC CHIP 0.01MF		50V					
C822	1-162-974-11	CERAMIC CHIP 0.01MF		50V					
C823	1-162-974-11	CERAMIC CHIP 0.01MF		50V					
C824	1-162-974-11	CERAMIC CHIP 0.01MF		50V					
C825	1-164-346-11	CERAMIC CHIP 1MF		16V					
C826	1-135-130-11	TANTAL. CHIP 4.7MF	20%	6.3V					
C827	1-135-207-11	TANTAL. CHIP 68MF	20%	6.3V					
CF1	1-567-910-11	FILTER, CERAMIC							
CF2	1-567-910-11	FILTER, CERAMIC							
CF003	1-577-065-11	FILTER, CERAMIC							
CN501	1-566-527-11	CONNECTOR, FPC (ZIF) 11P							
CN502	1-566-521-11	CONNECTOR, FPC (ZIF) 5P							
CN701	1-566-528-21	CONNECTOR, FPC (ZIF) 12P							
CN801	1-530-313-11	SOCKET, CONNECTOR 16P							
CN802	1-580-312-11	SOCKET, CONNECTOR (PLUG) 16P							
CN803	1-566-533-11	CONNECTOR, FPC (ZIF) 17P							
CN804	1-568-207-11	CONNECTOR, FPC (ZIF) 23P							
CNJ302	1-568-758-11	JACK (PHONES/REMOTE)							
CNJ401	1-568-907-21	JACK, EXTERNAL POWER (DC IN 6V)							
CT003	1-141-327-11	CAP, VAR, TRIMMER (CHIP TYPE)							
CT004	1-141-327-11	CAP, VAR, TRIMMER (CHIP TYPE)							
CT005	1-141-325-11	CAP, VAR, TRIMMER (CHIP TYPE)							
D001	8-719-939-02	DIODE SVC203CP							
D002	8-719-939-02	DIODE SVC203CP							
D003	8-719-951-05	DIODE KV1560							
D004	8-719-400-18	DIODE MA152WK							
D005	8-719-400-18	DIODE MA152WK							
D006	8-719-106-53	DIODE RD10M-B2							
D007	8-719-400-18	DIODE MA152WK							
D011	8-719-421-36	DIODE MA8036-L							
D012	8-719-421-21	DIODE MA8120-L							
D013	8-719-421-21	DIODE MA8120-L							
D014	8-719-400-18	DIODE MA152WK							
D015	8-719-400-18	DIODE MA152WK							
D017	8-719-421-36	DIODE MA8036-L							
D202	8-719-421-21	DIODE MA8120-L							
D203	8-719-421-21	DIODE MA8120-L							
D204	8-719-421-21	DIODE MA8120-L							
D205	8-719-421-21	DIODE MA8120-L							
D302	8-719-104-34	DIODE 1S2836							
D303	8-719-404-46	DIODE MA110							
D401	8-719-975-33	DIODE RB110C							
D402	8-719-975-40	DIODE RB411D							
D403	8-719-975-43	DIODE RB420D							
D404	8-719-975-40	DIODE RB411D							
D405	8-719-421-15	DIODE MA8027-L							
D407	8-719-400-18	DIODE MA152WK							
D408	8-719-975-33	DIODE RB110C							
D409	8-719-302-88	DIODE SEL2913K-D							

Ref.No.	Part No.	Description
Q013	8-729-903-10	TRANSISTOR FMW1
Q014	8-729-901-05	TRANSISTOR DTA124EK
Q015	8-729-807-87	TRANSISTOR 2SB1295-UL6
Q016	8-729-901-00	TRANSISTOR DTC124EK
Q017	8-729-271-23	TRANSISTOR 2SC2712
Q018	8-729-159-64	TRANSISTOR 2SD596
Q019	8-729-141-48	TRANSISTOR 2SB624-BV345
Q020	8-729-140-75	TRANSISTOR 2SD999-CLCK
Q101	8-729-921-72	TRANSISTOR 2SD1781K-R
Q102	8-729-921-72	TRANSISTOR 2SD1781K-R
Q103	8-729-921-72	TRANSISTOR 2SD1781K-R
Q201	8-729-921-72	TRANSISTOR 2SD1781K-R
Q202	8-729-921-72	TRANSISTOR 2SD1781K-R
Q203	8-729-921-72	TRANSISTOR 2SD1781K-R
Q301	8-729-420-27	TRANSISTOR 2SD1819A-QRS
Q302	8-729-806-75	TRANSISTOR 2SB1123
Q304	8-729-903-10	TRANSISTOR FMW1
Q401	8-729-923-36	TRANSISTOR 2SD1963-Q.R
Q402	8-729-926-71	TRANSISTOR 2SB1308-R
Q403	8-729-901-00	TRANSISTOR DTC124EK
Q404	8-729-904-87	TRANSISTOR 2SB1197K-R
Q405	8-729-921-72	TRANSISTOR 2SD1781K-R
Q406	8-729-901-00	TRANSISTOR DTC124EK
Q407	8-729-926-71	TRANSISTOR 2SB1308-R
Q408	8-729-421-23	TRANSISTOR XN1216
Q409	8-729-901-00	TRANSISTOR DTC124EK
Q410	8-729-901-05	TRANSISTOR DTA124EK
Q411	8-729-116-06	TRANSISTOR 2SK160-K6
Q412	8-729-921-84	TRANSISTOR 2SB1182F5-Q
Q413	8-729-901-00	TRANSISTOR DTC124EK
Q414	8-729-207-55	TRANSISTOR RN1401
Q415	8-729-904-87	TRANSISTOR 2SB1197K-R
Q416	8-729-920-71	TRANSISTOR 2SA1037K-QR
Q417	8-729-420-20	TRANSISTOR XN4312
Q418	8-729-403-42	TRANSISTOR XN1401
Q419	8-729-920-71	TRANSISTOR 2SA1037K-QR
Q420	8-729-421-23	TRANSISTOR XN1216
Q421	8-729-921-72	TRANSISTOR 2SD1781K-R
Q422	8-729-901-00	TRANSISTOR DTC124EK
Q423	8-729-920-71	TRANSISTOR 2SA1037K-QR
Q425	8-729-923-36	TRANSISTOR 2SD1963-Q.R
Q429	8-729-901-00	TRANSISTOR DTC124EK
Q430	8-729-904-87	TRANSISTOR 2SB1197K-R
Q431	8-729-807-33	TRANSISTOR 2SB1123
Q432	8-729-921-72	TRANSISTOR 2SD1781K-R
Q433	8-729-117-32	TRANSISTOR 2SC4177
Q434	8-729-400-56	TRANSISTOR 2SD1328-T
Q435	8-729-904-87	TRANSISTOR 2SB1197K-R
Q436	8-729-420-24	TRANSISTOR 2SB1218A-S
Q437	8-729-901-03	TRANSISTOR DTC144EK
Q438	8-729-901-00	TRANSISTOR DTC124EK
Q439	8-729-926-71	TRANSISTOR 2SB1308-R
Q440	8-729-901-00	TRANSISTOR DTC124EK
Q441	8-729-921-72	TRANSISTOR 2SD1781K-R
Q442	8-729-162-44	TRANSISTOR 2SB624-BV4
Q443	8-729-900-98	TRANSISTOR DTC143TK
Q501	8-729-402-90	TRANSISTOR XN4609

Ref.No.	Part No.	Description
Q502	8-729-904-87	TRANSISTOR 2SB1197K-R
Q503	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q504	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q505	8-729-901-00	TRANSISTOR DTC124EK
Q506	8-729-924-79	TRANSISTOR FMG8
Q510	8-729-420-20	TRANSISTOR XN4312
Q801	8-729-902-96	TRANSISTOR FMS1
Q802	8-729-902-96	TRANSISTOR FMS1
Q803	8-729-402-16	TRANSISTOR XN4608
Q804	8-729-420-20	TRANSISTOR XN4312
Q805	8-729-901-05	TRANSISTOR DTA124EK
Q806	8-729-901-00	TRANSISTOR DTC124EK
Q807	8-729-921-72	TRANSISTOR 2SD1781K-R
Q808	8-729-901-05	TRANSISTOR DTA124EK
Q809	8-729-420-20	TRANSISTOR XN4312
Q811	8-729-901-00	TRANSISTOR DTC124EK
Q813	8-729-900-51	TRANSISTOR DTA114TK
Q814	8-729-921-72	TRANSISTOR 2SD1781K-R
Q815	8-729-901-05	TRANSISTOR DTA124EK
Q816	8-729-901-05	TRANSISTOR DTA124EK
Q817	8-729-901-05	TRANSISTOR DTA124EK
R001	1-216-842-11	METAL GLAZE 56K 5% 1/16W
R002	1-216-818-11	METAL GLAZE 560 5% 1/16W
R003	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R004	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R005	1-216-834-11	METAL GLAZE 12K 5% 1/16W
R006	1-216-262-00	METAL GLAZE 470K 5% 1/8W
R007	1-216-853-11	METAL GLAZE 470K 5% 1/16W
R008	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R009	1-216-818-11	METAL GLAZE 560 5% 1/16W
R010	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R011	1-216-813-11	METAL GLAZE 220 5% 1/16W
R012	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R013	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W
R014	1-216-019-00	METAL GLAZE 56 5% 1/10W
R015	1-216-850-11	METAL GLAZE 270K 5% 1/16W
R016	1-216-809-11	METAL GLAZE 100 5% 1/16W
R017	1-216-043-00	METAL GLAZE 560 5% 1/10W
R018	1-216-037-00	METAL GLAZE 330 5% 1/10W
R019	1-216-113-00	METAL GLAZE 470K 5% 1/10W
R020	1-216-025-00	METAL GLAZE 100 5% 1/10W
R021	1-216-844-11	METAL GLAZE 82K 5% 1/16W
R022	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R023	1-216-814-11	METAL GLAZE 270 5% 1/16W
R024	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R025	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R026	1-216-809-11	METAL GLAZE 100 5% 1/16W
R027	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R028	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R029	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R030	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W
R031	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W
R032	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W
R033	1-216-826-11	METAL GLAZE 2.7K 5% 1/16W
R034	1-216-834-11	METAL GLAZE 12K 5% 1/16W
R035	1-216-812-11	METAL GLAZE 180 5% 1/16W
R036	1-216-820-11	METAL GLAZE 820 5% 1/16W

Ref.No.	Part No.	Description			
R037	1-216-822-11	METAL GLAZE	1.2K	5%	1/16W
R038	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R039	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W
R040	1-216-331-11	METAL GLAZE	9.1K	1%	1/10W
R041	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R042	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R043	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R044	1-216-809-11	METAL GLAZE	100	5%	1/16W
R045	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W
R046	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R047	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R048	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R049	1-216-849-11	METAL GLAZE	220K	5%	1/16W
R050	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R051	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W
R052	1-216-793-11	METAL GLAZE	4.7	5%	1/16W
R053	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R054	1-216-815-11	METAL GLAZE	330	5%	1/16W
R055	1-216-820-11	METAL GLAZE	820	5%	1/16W
R056	1-216-820-11	METAL GLAZE	820	5%	1/16W
R057	1-216-793-11	METAL GLAZE	4.7	5%	1/16W
R058	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R059	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R061	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W
R062	1-216-230-00	METAL GLAZE	22K	5%	1/8W
R063	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W
R064	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R066	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R067	1-216-831-11	METAL GLAZE	6.8K	5%	1/16W
R068	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R069	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R070	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R071	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R072	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R087	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R088	1-216-831-11	METAL GLAZE	6.8K	5%	1/16W
R089	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W
R090	1-216-831-11	METAL GLAZE	6.8K	5%	1/16W
R091	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W
R092	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R094	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R095	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R096	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R102	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R103	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W
R104	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R105	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R106	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W
R107	1-216-813-11	METAL GLAZE	220	5%	1/16W
R108	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R109	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R110	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R111	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W
R116	1-216-831-11	METAL GLAZE	6.8K	5%	1/16W
R117	1-216-797-11	METAL GLAZE	10	5%	1/16W
R202	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R203	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W

Ref.No.	Part No.	Description			
R204	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R205	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R206	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W
R207	1-216-813-11	METAL GLAZE	220	5%	1/16W
R208	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R209	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R210	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R211	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W
R216	1-216-831-11	METAL GLAZE	6.8K	5%	1/16W
R217	1-216-797-11	METAL GLAZE	10	5%	1/16W
R301	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R302	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R303	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R304	1-216-822-11	METAL GLAZE	1.2K	5%	1/16W
R305	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R306	1-216-835-11	METAL GLAZE	15K	5%	1/16W
R307	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R308	1-216-847-11	METAL GLAZE	150K	5%	1/16W
R309	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W
R310	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R312	1-216-797-11	METAL GLAZE	10	5%	1/16W
R313	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R401	1-216-824-11	METAL GLAZE	1.8K	5%	1/16W
R402	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R403	1-216-815-11	METAL GLAZE	330	5%	1/16W
R404	1-216-824-11	METAL GLAZE	1.8K	5%	1/16W
R405	1-216-835-11	METAL GLAZE	15K	5%	1/16W
R406	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W
R407	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R408	1-216-817-11	METAL GLAZE	470	5%	1/16W
R409	1-216-815-11	METAL GLAZE	330	5%	1/16W
R410	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R411	1-216-817-11	METAL GLAZE	470	5%	1/16W
R412	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R413	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R414	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W
R415	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R416	1-216-817-11	METAL GLAZE	470	5%	1/16W
R417	1-216-662-11	METAL CHIP	3K	0.50%	1/10W
R418	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R419	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R420	1-216-697-11	METAL CHIP	82K	0.50%	1/10W
R421	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R422	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R423	1-217-806-11	METAL GLAZE	1	5%	1/8W
R424	1-217-806-11	METAL GLAZE	1	5%	1/8W
R425	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R426	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R427	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R428	1-216-805-11	METAL GLAZE	47	5%	1/16W
R429	1-216-809-11	METAL GLAZE	100	5%	1/16W
R430	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R431	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R432	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R433	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R434	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R435	1-216-092-00	METAL GLAZE	62K	5%	1/10W

Ref.No.	Part No.	Description						
R436	1-216-830-11	METAL GLAZE	5.6K	5%	1/16W			
R438	1-216-869-11	METAL GLAZE	130K	1%	1/10W			
R440	1-216-034-00	METAL GLAZE	240	5%	1/10W			
R443	1-216-851-11	METAL GLAZE	330K	5%	1/16W			
R444	1-216-817-11	METAL GLAZE	470	5%	1/16W			
R445	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R446	1-216-837-11	METAL GLAZE	22K	5%	1/16W			
R448	1-216-817-11	METAL GLAZE	470	5%	1/16W			
R449	1-216-817-11	METAL GLAZE	470	5%	1/16W			
R450	1-216-837-11	METAL GLAZE	22K	5%	1/16W			
R451	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R452	1-216-817-11	METAL GLAZE	470	5%	1/16W			
R453	1-216-853-11	METAL GLAZE	470K	5%	1/16W			
R454	1-216-814-11	METAL GLAZE	270	5%	1/16W			
R455	1-216-800-11	METAL GLAZE	18	5%	1/16W			
R456	1-216-836-11	METAL GLAZE	18K	5%	1/16W			
R457	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W			
R459	1-216-817-11	METAL GLAZE	470	5%	1/16W			
R460	1-216-809-11	METAL GLAZE	100	5%	1/16W			
R461	1-216-857-11	METAL GLAZE	1M	5%	1/16W			
R465	1-216-831-11	METAL GLAZE	6.8K	5%	1/16W			
R466	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R467	1-216-837-11	METAL GLAZE	22K	5%	1/16W			
R468	1-216-815-11	METAL GLAZE	330	5%	1/16W			
R469	1-216-115-00	METAL GLAZE	560K	5%	1/10W			
R471	1-216-821-11	METAL GLAZE	1K	5%	1/16W			
R472	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R473	1-216-830-11	METAL GLAZE	5.6K	5%	1/16W			
R474	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W			
R480	1-216-814-11	METAL GLAZE	270	5%	1/16W			
R502	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R503	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W			
R505	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R506	1-216-837-11	METAL GLAZE	22K	5%	1/16W			
R507	1-216-832-11	METAL GLAZE	8.2K	5%	1/16W			
R508	1-216-831-11	METAL GLAZE	6.8K	5%	1/16W			
R509	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R510	1-216-797-11	METAL GLAZE	10	5%	1/16W			
R511	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R512	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R513	1-216-859-11	METAL GLAZE	1.5M	5%	1/16W			
R514	1-216-851-11	METAL GLAZE	330K	5%	1/16W			
R515	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W			
R516	1-216-835-11	METAL GLAZE	15K	5%	1/16W			
R517	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R519	1-216-844-11	METAL GLAZE	82K	5%	1/16W			
R520	1-216-849-11	METAL GLAZE	220K	5%	1/16W			
R521	1-216-837-11	METAL GLAZE	22K	5%	1/16W			
R522	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R523	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W			
R524	1-216-115-00	METAL GLAZE	560K	5%	1/10W			
R525	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R526	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W			
R527	1-216-683-11	METAL CHIP	22K	0.50%	1/10W			
R528	1-216-848-11	METAL GLAZE	180K	5%	1/16W			
R529	1-216-062-00	METAL GLAZE	3.6K	5%	1/10W			
R530	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W			
R531	1-216-857-11	METAL GLAZE	1M	5%	1/16W			
R532	1-216-683-11	METAL CHIP	22K	0.50%	1/10W			
R533	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R535	1-216-863-11	METAL GLAZE	3.3M	5%	1/16W			
R536	1-216-844-11	METAL GLAZE	82K	5%	1/16W			
R538	1-216-841-11	METAL GLAZE	47K	5%	1/16W			
R539	1-216-857-11	METAL GLAZE	1M	5%	1/16W			
R540	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R541	1-216-820-11	METAL GLAZE	820	5%	1/16W			
R542	1-216-847-11	METAL GLAZE	150K	5%	1/16W			
R543	1-216-847-11	METAL GLAZE	150K	5%	1/16W			
R544	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W			
R545	1-216-837-11	METAL GLAZE	22K	5%	1/16W			
R546	1-216-840-11	METAL GLAZE	39K	5%	1/16W			
R547	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R548	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W			
R549	1-216-857-11	METAL GLAZE	1M	5%	1/16W			
R550	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W			
R551	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W			
R552	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W			
R553	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R554	1-216-847-11	METAL GLAZE	150K	5%	1/16W			
R556	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W			
R557	1-216-821-11	METAL GLAZE	1K	5%	1/16W			
R559	1-216-843-11	METAL GLAZE	68K	5%	1/16W			
R560	1-216-841-11	METAL GLAZE	47K	5%	1/16W			
R561	1-216-841-11	METAL GLAZE	47K	5%	1/16W			
R562	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R563	1-216-846-11	METAL GLAZE	120K	5%	1/16W			
R590	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R601	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R602	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R801	1-216-830-11	METAL GLAZE	5.6K	5%	1/16W			
R802	1-216-837-11	METAL GLAZE	22K	5%	1/16W			
R803	1-216-837-11	METAL GLAZE	22K	5%	1/16W			
R804	1-216-837-11	METAL GLAZE	22K	5%	1/16W			
R805	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R806	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R807	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R808	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R809	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R810	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R811	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R812	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R813	1-216-833-11	METAL GLAZE	10K	5%	1/16W			
R814	1-216-668-11	METAL CHIP	5.1K	0.50%	1/10W			
R815	1-216-845-11	METAL GLAZE	100K	5%	1/16W			
R816	1-216-816-11	METAL GLAZE	390	5%	1/16W			
R817	1-216-698-11	METAL CHIP	91K	0.50%	1/10W			
R818	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W			
R819	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W			
R820	1-216-809-11	METAL GLAZE	100	5%	1/16W			
R821	1-216-689-11	METAL CHIP	39K	0.50%	1/10W			
R822	1-216-678-11	METAL CHIP	13K	0.50%	1/10W			
R823	1-216-857-11	METAL GLAZE	1M	5%	1/16W			
R824	1-216-851-11	METAL GLAZE	330K	5%	1/16W			
R825	1-216-857-11	METAL GLAZE	1M	5%	1/16W			

Ref.No.	Part No.	Description
R827	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R828	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R829	1-216-859-11	METAL GLAZE 1.5M 5% 1/16W
R830	1-216-858-11	METAL GLAZE 1.2M 5% 1/16W
R831	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R834	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R835	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R836	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R837	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R838	1-216-110-00	METAL CHIP 360K 0.50% 1/10W
R839	1-216-103-00	METAL CHIP 180K 0.50% 1/10W
R841	1-218-272-11	METAL GLAZE 5.1K 5% 1/16W
R842	1-216-827-11	METAL GLAZE 3.3K 5% 1/16W
R848	1-216-827-11	METAL GLAZE 3.3K 5% 1/16W
R849	1-216-843-11	METAL GLAZE 68K 5% 1/16W
R850	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R851	1-216-857-11	METAL GLAZE 1M 5% 1/16W
R852	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R853	1-216-075-00	METAL GLAZE 12K 5% 1/10W
R854	1-216-066-00	METAL GLAZE 5.1K 5% 1/10W
R855	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R856	1-216-242-00	METAL GLAZE 68K 5% 1/8W
R857	1-216-224-00	METAL GLAZE 12K 5% 1/8W
R858	1-216-066-00	METAL GLAZE 5.1K 5% 1/10W
R859	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R861	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R863	1-216-861-11	METAL GLAZE 2.2M 5% 1/16W
RV001	1-238-733-11	RES, ADJ, METAL GLAZE 6.8K
RV301	1-241-017-11	RES, VAR, CARBON 10K/10K (VOLUME)
RV401	1-241-066-11	RES, ADJ, METAL GRAZE 4.7K
RV402	1-241-069-11	RES, ADJ, METAL GRAZE 47K
RV403	1-241-065-11	RES, ADJ, METAL GRAZE 2.2K
RV501	1-241-068-11	RES, ADJ, METAL GRAZE 22K
RV502	1-241-068-11	RES, ADJ, METAL GRAZE 22K
RV503	1-241-069-11	RES, ADJ, METAL GRAZE 47K
RV504	1-241-064-11	RES, ADJ, METAL GRAZE 1K
RV505	1-241-068-11	RES, ADJ, METAL GRAZE 22K
RV801	1-241-067-11	RES, ADJ, METAL GRAZE 10K
S001	1-570-397-11	SWITCH, SLIDE (TUNER SENSE)
S002	1-570-397-11	SWITCH, SLIDE (FM MODE)
S003	1-570-397-11	SWITCH, SLIDE (TUNER ISS)
S301	1-570-386-21	SWITCH, SLIDE (BASS BOOST)
S401	1-570-953-11	SWITCH, PUSH (1 KEY)(BP-2 ON)
S801	1-570-909-21	SWITCH, TACTIL (REFLOW TYPE)(▶▶)
S802	1-570-909-21	SWITCH, TACTIL (REFLOW TYPE)(■)
S803	1-570-909-21	SWITCH, TACTIL (REFLOW TYPE)(▶▶)
S804	1-570-909-21	SWITCH, TACTIL (REFLOW TYPE)(▶▶)
S805	1-570-204-11	SWITCH, KEY BOARD (PLAY MODE)
S806	1-570-204-11	SWITCH, KEY BOARD (ENTER MEMORY)
S807	1-571-860-11	SWITCH, SLIDE (HOLD/RESUME)
S808	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(3)
S809	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(6)
S810	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(9)
S811	1-571-737-21	SWITCH, KEY BOARD (REFLOW) (TUNER ON/BAND)
S812	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(2)
S813	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(5)



Ref.No.	Part No.	Description
S814	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(8)
S815	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(+10)
S816	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(1)
S817	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(4)
S818	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(7)
S819	1-571-737-21	SWITCH, KEY BOARD (REFLOW)(10)
S820	1-571-506-41	SWITCH, SLIDE (AREA)
S901	1-570-953-11	SWITCH, PUSH (1 KEY)(OPEN)
S902	1-572-025-11	MICRO SW
T001	1-404-690-11	TRANSFORMER, IF
T002	1-448-302-11	TRANSFORMER, DC-DC CONVERTER
T401	1-450-227-21	TRANSFORMER, DC-DC CONVERTER
X001	1-579-101-11	VIBRATOR, CRYSTAL (4.5MHz)
X301	1-567-737-11	VIBRATOR, CRYSTAL (16.9344MHz)
X801	1-577-064-11	VIBRATOR, CHIP CERAMIC (3.58MHz)
X802	1-577-316-11	VIBRATOR, CRYSTAL (32.768kHz)

ACCESSORY & PACKING MATERIAL


△1-465-265-11	(US).....ADAPTOR, AC (AC-64N(U))
△1-465-266-11	(Canadian)....ADAPTOR, AC (AC-64N(CA))
△1-465-267-11	(AEP).....ADAPTOR, AC (AC-64N(AE))
△1-465-269-11	(UK).....ADAPTOR, AC (AC-64N(UK))
△1-465-520-11	(E).....ADAPTOR (AC-64N)
△1-465-608-11	(US).....ADAPTOR, AC (AC-64NA)
△1-569-007-11	(E)....ADAPTOR, CONVERSION 2P
1-528-297-21	(AEP)...BATTERY PACK (BP-2EX)(RECYCLE MARK)
1-528-297-11	BATTERY PACK (BP-2EX)
1-555-658-21	CORD, CONNECTION (RK-G129)
1-575-195-11	CORD, CONNECTION
3-752-086-01	INSTRUCTION (JAPAN/ENGLISH/FRENCH)
3-752-258-11	(Canadian,AEP,E,UK)..MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH/PORTUGUESE)
3-752-258-21	(US).....MANUAL, INSTRUCTION (ENGLISH)
3-752-258-41	(AEP,IT)...MANUAL, INSTRUCTION (GERMAN/DUTCH/SWEDISH/ITALIAN)
*4-920-407-01	BAG, PROTECTION
4-931-885-11	STRAP, HAND
*4-931-874-11	(AEP,UK).....CUSHION (UPPER)
*4-931-874-01	(US,Canadian,E)...CUSHION (UPPER)
*4-941-009-01	(US,Canadian,E)...CUSHION (LOWER)
*4-941-013-01	(AEP,IT,UK).....CUSHION (LOWER)
*4-941-011-01	(US,Canadian,E)...INDIVIDUAL CARTON
*4-941-012-01	(AEP,IT,UK).....INDIVIDUAL CARTON
8-953-307-90	(US,AEP,IT,UK)...HEADPHONE MDR-A10D SET
8-953-409-90	(Canadian,E)....HEADPHONE MDR-E472A SET
X-4930-117-1	CASE ASSY, BATTERY
△1-465-268-11	(EA)...ADAPTOR, AC (AC-64 (E))
△1-506-401-31	(EA)...ADAPTOR, AC PLUG

EA: Saudi Arabia

Note:

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.